

Operators Manual

FB2560 DAT Series Driver Access Terminal

In/Out Application Network Application



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Amendment Record

FB2560 DAT Series <u>Driver Access Terminal</u> Operator Manual, 51445

Manufactured by Fairbanks Scales Inc.

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Section 1: General Information

1.1. Introduction

Fairbanks Driver Access Terminals (DAT)

offers the following benefits.

- Fully-automated system, to eliminate the need for an on-site operator. *
- The driver stays in his vehicle to weigh.
- A seven-inch (7") color graphic display.
- An optional metalized outdoor keypad is vandal resistant, field tested and proven for demanding outdoor public environments.
- Two printer options are currently available.
 - Offered in both a wide and narrow print formats.
 - Available in thermal or dot matrix printers.
 - Ideal for unattended operation, these specific printers are also equipped with auto-feed and auto-cutter.
 - For durability and environmental protection, the ticket is printed internally then dispensed through a ticket slot in the front of the unit.
- The FB2560 DAT provides many connectivity and data acquisition capabilities with RS232, RS485, RS422 serial ports, USB, and a PCI 10/100mbs Ethernet interface.
- The **FB2560 DAT** can be outfitted with an optional bar code, magnetic or proximity card reader, which, after a quick card swipe, instantly transfers truck data to the system preventing possible data entry errors.
- Other options, such as an **Intercom** is also available.
- * Always check the local **Weights & Measures Official** for the rules governing unattended applications.





1.1.1. Description

- An integrated e-mail client is configurable to alert a service organization or individual of a problem prior to total failure.
- These error notifications include such warnings as load cell failure, and calibration change.
- Several other notifications are available to keep the proper individuals informed of the scale's operating condition.
- Uses the customer's existing email infrastructures.
- Requires a connection to the customer's PC Network.
- The instrument is designed to function with Intalogix[™] Technology, 5 analog load cells, and Mettler Toledo DigiTol[™] Load Cells.

The **FB2560 DAT** is a modular designed instrument, configurable and upgradable using **Printed Circuit Modules**.

• Each module provides a specific scale or I/O functionality to the weighing system.

STANDARD FEATURES

- Seven inch (7") full-color display
- Ethernet
- SQL database
- Touch screen operation
- Integrated web server

- Multiple/ Expandable serial ports
- Built-in reporting functions
- IP Camera interface with onscreen image
- Stainless steel construction
- Programmable F-key Prompts

MODULE KIT NO.	DESCRIPTION	MAX PER INSTRUMENT
30916	Intalogix Power Supply and Communications PCB Kit	1
30917	30917 Expansion PCB Assy Kit* 2	
30918	Scale Interface Controller (SIC) PCB Assy Kit	1
30919	4-20mA Analog Kit	1
30920	Relay PCB Assy Kit	2
30921 Serial Expansion PCB Assy Kit		2
31079	A/D Convertor Kit	1

NOTE: Any combination of **eight (8) modules** can be installed, restricted to this maximum number. Possibly even less, depending on the module kit type.



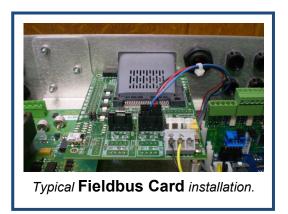
1.2. Accessories

1.2.1. Fieldbus Interface Kits

The **Industrial Fieldbus Module** is a standalone **Communication Interface Module**.

The **SBC** communicates thru a **RS232 port** to this **Fieldbus Gateway**, which may be populated with the appropriate Fieldbus option.

• Those options include the **PROFIBUS-DP**, **Modbus-TCP**, **DeviceNet**, **EtherNet/IP** and **ControlNet**.



1.2.2. RS-485 Serial Port Accessory

The RS-485 Serial Port Accessory (30937) is a two-wire, half duplex,

multipoint serial connection.

- RS-485 offers high data transmission speeds, and uses a differential balanced line over twisted pair over long distances.
- RS-485 enables the configuration of inexpensive local networks and multi-drop communications links.
- This accessory utilizes **COM Port 1**.

NOTE: See **<u>6.1. ACCESSORY PARTS REFERENCE</u>** for the complete listing of available options.



1.3. Specifications

Enclosure	NEMA 4 Stainless Steel	
BIOS	Award™ Software	
RAM	4 GB RAM	
Disk Storage	8 GB PCIe Memory Device	
Operating System	Windows 10 Embedded, 64 GB Flash Module	
Temperature Operating Range Storage Range	14°F to 104°F, (–10°C to 40°C).	
Serial Outputs	Up to 12 serial ports and 5 built-in USB ports. The USB port on the Multi-Function board is dedicated for a keyboard only.	
Digital I/O	Up to 28 I/O	
Ethernet Interface	PCI 10/100/1000 Mbps Ethernet Complies with IEEE 802.3x Standards	
Display	7" Diagonal Touch Screen LCD Color	
Scale Interface Options	 Intalogix Technology Intalogix Power Supply and Communications (30916) Scale Interface Controller (30918) Analog Technology. A/D Convertor Load Cell Interface (31079) Up to sixteen (16) 1000 Ω or eight (8) 350 Ω cells. 	
Accessories	 Serial Interface (30921), including: <i>RS232</i> <i>RS-485</i> 20mA 4-20mA (30919) Mini keyboard (25498) USB – 87 key Keyboard (31036) USB – 104 key SVP/ Uninterruptible Power Supply (UPS) (15892) 500 VA Rating Fieldbus Gateway <i>PROFIBUS-DP</i> (30922) <i>DeviceNet</i> (30923) <i>ControlNet</i> (30924) <i>Modbus-TCP</i> (30925) 	
Power Requirements	 100 - 130 VAC @ 12A @ 60 Hz +/- 2 Hz Separate and dedicated circuit. Neutral to Ground voltage should be ≤ 0.2 VAC One Amp (1A) is typical. Twelve Amps (12A) is a fully equipped model. 	
ETL Listed	 Conforms to UL STD 60950-1. CAN/CSA C 22.2 NO.60950-1-03. 	
Approvals	 CC# 10-089 MC# AM-5805 	



1.4. General Service Policy

Prior to installation, *always* verify that the equipment satisfies the customer's requirements as supplied, and as described in this manual.

If the equipment cannot satisfy the application and the application cannot be modified to meet the design parameters of the equipment, **the installation should** *NOT* **be attempted**.

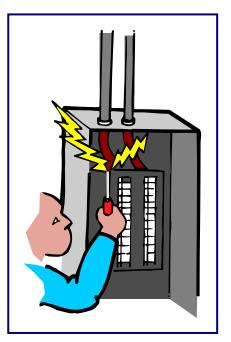
It is the **customer/operator's responsibility** to ensure the equipment provided by Fairbanks is operated within the parameters of the equipment's specifications and protected from accidental or malicious damage.

All load cells, load cell cables and interconnecting cables used to connect all scale components shall be located **a minimum of thirty-six** (36") inches distance away from all single and multiple phase high energy circuits and electric current carrying conductors.

- This includes digital weight indicators, junction boxes, sectional controllers, and power supplies.
- This includes any peripheral devices, such as printers, remote displays, relay boxes, remote terminals, card readers, and auxiliary data entry devices.
- Also included is the scale components themselves, such as 120-volt AC, 240

volt AC, 480 volt AC and electric supply of higher voltage wiring runs and stations, AC power transformers, overhead or buried cables, electric distribution panels, electric motors, florescent and high intensity lighting which utilize ballast assemblies, electric heating equipment, traffic light wiring and power, and relay boxes.

All scale components, including digital weight Instruments and peripheral devices are not designed to operate on internal combustion engine driven electric generators and other similar equipment.





WARNINGIAbsolutely no physical, electrical or program modifications other
than selection of standard options and accessories can be made
by customers to this equipmentRepairs are performed by Fairbanks Scales Service Technicians
and Authorized Distributor Personnel ONLY!Failure to comply with this policy voids all implied and/or written
warranties

Please call your local **FAIRBANKS SCALES REPRESENTATIVE** *for any questions, problems, or comments.*

1.5. Pre-Installation Checkout

The following points should be checked and discussed with the **Area Sales Manager and/or customer**, if necessary, before the technician goes to the site and installs the equipment.

- Check the customer's application to make certain it is within the capabilities and design parameters of the equipment.
- If the installation process might disrupt normal business operations, tell the customer and ask that they make ample arrangements.
- Is properly-grounded power available at the installation location?
- Be sure that the equipment operator(s) are available for training.
- The Service Technician must thoroughly review the installation procedures.
- The service technician reviews the recommended setup with the Area Sales Manager or Area Service Manager, and together they identify all necessary variations to satisfy the customer's application.





1.5.1. Unpacking

Follow these guidelines when unpacking all equipment:

- ✓ Check in all components and accessories according to the customer's order.
- Remove all components from their packing material, checking against the invoice that they are accounted for and not damaged.
 - Advise the shipper immediately, if damage has occurred.
 - Order any parts necessary to replace those which have been damaged.
 - Keep the shipping container and packing material for future use.
 - Check the packing list.
- ✓ Collect all necessary installation manuals for the equipment and accessories.
- Open the equipment and perform an inspection, making certain that all hardware, electrical connections, and printed circuit assemblies are secure.
- Do not reinstall the cover if the final installation is to be performed after the pre-installation checkout.

1.5.2. Equipment Location

Position the equipment with these points in mind:

- Intense direct sunlight can harm the display.
- ✓ Airborne particles can activate the touch screen.
- ✓ Work areas should be relatively free from drafts and vibrations.
- Do not locate near magnetic material or equipment/instruments which use magnets in their design.
- Avoid areas which have extreme variations in temperatures. Temperatures outside the instrument's specifications will affect the weighing accuracy of this product.

1.5.3. Safety

Follow these safety precautions during operation:

- Properly shut down the equipment and remove power before any cables or hardware is disconnected.
- Remove power to the equipment after a proper shut down before servicing the equipment.





1.6. Users' Responsibilities

- All electronic and mechanical calibrations and/or adjustments required for making this equipment perform to accuracy and operational specifications should be performed by trained service personnel.
- Absolutely no physical, electrical or program modifications other than selection of standard options and accessories are to be made to this equipment.
 - Electrical connections other than those specified may not be performed, and physical alterations (holes, etc.) are not allowed.
- The equipment consists of printed circuit assemblies which must be handled using ESD handling procedures and must be replaced as units.
 - Replacement of individual components is not allowed.



Section 2: Operations

2.1. Front Panel KeyPad Functions

	789
73080 bb Gross	4 5 6
35500 [™] Tare 35500 35500 3	MENU D 123
37580 ^{b Net}	
න් REPRINT TKT Enday 8221 ym 8221.302	ZERO PRINT UNITS
F1 F2 F3 F4 F5	Made in the USA FAIRBANKS

KEY (S)	FUNCTION	
0-9	Used to enter numeric data such as IDs.	
F1	This key is not operational in the weight processing screen.	
F2	This key is not operational in the weight processing screen.	
F3	Reprint Ticket. This key will permit the reprinting of a previously printed ticket. This key will also function to pull up a list of items such as Loop, Customer, or Product during the weighing process.	
F4	This key is not operational in the weight processing screen.	
F5	This key is not operational in the weight processing screen. This key, while in the configuration menu, performs as a backup key to the previous screen.	
ALT + F5	Power Off. This key with the ALT key held down turns the instrument off. The power cord must be unplugged and plugged back in to power up the instrument	
Enter	Will store or accept a data entry item.	
Zero	This key is not operational in the weight processing screen.	
ALT + Zero	This key when used with an external keyboard with the ALT key held down will Zero the scale.	
Units	This key is not operational in the weight processing screen.	
ALT + Units	This key when used with an external keyboard with the ALT key held down will toggle the Units.	
Print	Will initiate a print cycle.	
Menu	This key is not operational in the weight processing screen.	
ALT + Menu	This key when used with an external keyboard with the ALT key held down will open the Menu for the Configuration Home.	
Up Arrow	Navigate up.	
Down Arrow	Navigate down.	
Left Arrow	Navigate left.	
Right Arrow	Navigate right.	



2.2. External Keyboard

KEY	FUNCTION	
F1	This key is not operational in the weight processing screen.	
F2	This key is not operational in the weight processing screen.	
F3	Reprint Ticket. This key will permit the reprinting of a previously printed ticket. This key will also function to pull up a list of items such as Loop, Customer, or Product during the weighing process.	
F4	This key is not operational in the weight processing screen.	
F5	This key is not operational in the weight processing screen. This key, while in the configuration menu, performs as a backup key to the previous screen.	
ALT + F5	Power Off. This key with the ALT key held down turns the instrument off. The power cord must be unplugged and plugged back in to power up the instrument	
ALT + Pause Break	This key with the ALT key held down will Zero the scale.	
ALT + Zero	The ALT key held down plus pressing the Zero key on the keypad will Zero the scale.	
ALT + Scroll Lock	This key with the ALT key held down will toggle the Units.	
ALT + Units	The ALT key held down plus pressing the Units key on the keypad will toggle the scales units.	
PrtSc SysRq	Will initiate a print cycle.	
ALT + Home	This key with the ALT key held down will open the Menu for the Configuration Home.	
ALT + Menu	The ALT key held down plus pressing the Menu key on the keypad will open the Menu for the Configuration Home.	
ESC	Clear or restart.	
Ctrl + Shift + H	System Information	
Ctrl + Shift + S	Displays Expansion modules installed.	
Alphanumeric keys	Used to enter various data. i.e. – truck id's, products, customers	
Up Arrow	Navigate up.	
Down Arrow	Navigate down.	
Left Arrow	Navigate left.	
Right Arrow	Navigate right.	





2.3. Proper Shutdown Procedure

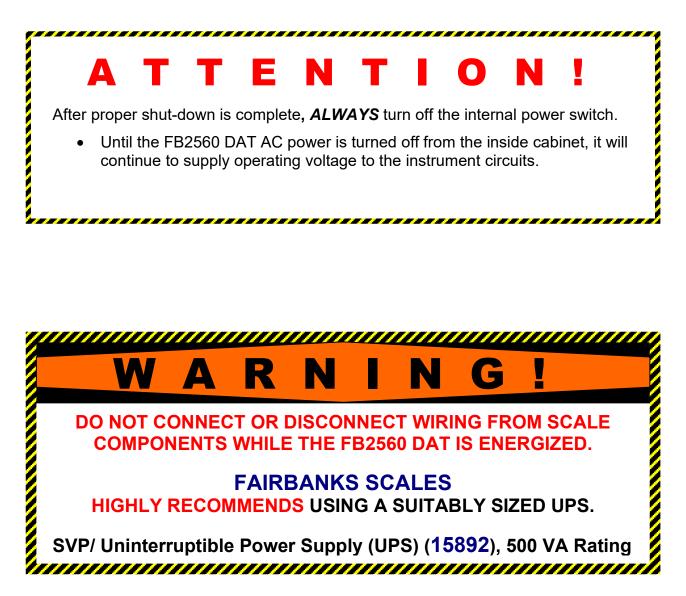


- 1. An external keyboard must be used to perform the shutdown.
- Press the ALT + F5 key to begin the shut-down process from the weight processing screen.
 - A **Shut Off Warning** appears whenever **ALT + F5** is pushed.
- 3. After proper shut-down is complete, *ALWAYS* turn off the internal power switch.
- P YES
 NO
 Power Off 2550.
 - Until the FB2560 DAT AC power is turned off from the inside cabinet power
 - switch, it will continue to supply operating voltage to the instrument circuits.
- 4. The **POWER-OFF (ALT + F5)** is inactive when any Service Programming is being completed.

NOTE: If the display on the FB2560 changes to a "white" screen, it is in in **Sleep Mode**. Press any key or touch the display to "wake up" the instrument.



2.3. Proper Shutdown Procedure, Continued





2.4. Operational Procedures

2.4.1. Basic Operations Summary

GROSS WEIGHING

- 1. Drive the vehicle to be weighed on the platform.
- 2. Once the display stabilizes, press the **PRINT** key.
- A Gross Weight ticket prints.

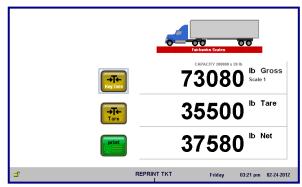


GROSS-TARE-NET WEIGHING

- 3. Drive the vehicle to be weighed on the platform.
- 4. Press either the **KEY TARE** or **TARE** button.
- If **KEY TARE** is selected, enter the known **Tare Weight** on the keypad.
- If **TARE** is selected, the weight on the display is captured as a **Tare Weight**.
- 5. Load the vehicle with product and return to the scale.
- 6. Press the **PRINT** key and a Gross-Tare-Net Ticket will be printed.
- Mode Change When a **KEY TARE** or **TARE** button is pressed, the scale automatically switches from the **Gross Weighing Mode** to the **Gross-Tare-Net Mode**.
- 7. To change the scale from the Gross-Tare-Net Mode back to the Gross Weighing Mode, press **KEY TARE**.

NOTE: If the display shows cell(s) failure, this indicates an error on the platform.

Check the platform for equipment, debris, or other materials and remove them. If this does not resolve the condition, call for service.



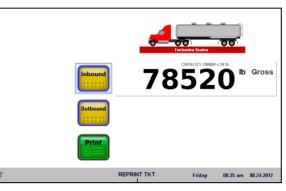


2.4.1. Basic Operations Summary, Continued

INBOUND/OUTBOUND WEIGHING

Follow these steps to weigh using the INBOUND/OUTBOUND Mode.

1. The truck pulls onto the scale.



- 2. The driver enters the **TRUCK ID**, or swipes an Id Card.
- Original readers include the following.
 - Prox Card Barcode Card
 - Magnetic Card
- 3. The driver enters the **CUSTOMER ID** (optional setting).
- 4. The driver enters a **PRODUCT ID** (optional setting).

This **Product ID** is validated against the system database.

- This **Customer ID** is validated against the system database.
- The driver enters data into a FREE FORM PROMPT for any additional information needed to detail the transaction, such as Trailer ID.
- There are ten (10) available free form prompts.
- The information is stored in the transaction record and can be printed, but it is not validated against the database.







Enter TRA	ILER ID
新 711821	
cancel	Finish
Select FINISH or press [Enter] to accept this entry and continue.	

١

78520 Ib Gross

19660 Ib Tare

58860 lb Net

09:25 am 08-24-2012

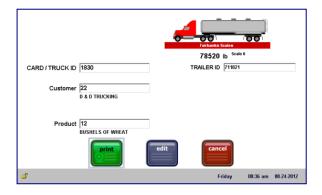


2.4.1. Basic Operations Summary, Continued

INBOUND/OUTBOUND WEIGHING

An optional **REVIEW Screen** provides the driver an opportunity to review and edit the entered information before generating a ticket.

6. Pressing the **EDIT** button updates the inputs.



A window displays briefly showing the **Gross, Tare** and **Net weights** while the transaction processes.

Printing a hard copy ticket is optional.

Screen prompts the

CARD / TRUCK ID 1830

The optional **EXIT Screen** prompts the driver to leave the scale.

- The message within this window is fully programmable.
- Separate messages are available for **Inbound** (one line) and **Outbound** (two lines) **Transactions.**



PROCESSING TRANSACTION



NOTE: FB2560 instruments, which are not connected to an EtherNet TCP/IP network, may display an ACTIVATE WINDOWS message. **This is not an error**. This is the Windows 10 OS notifying you that it wants to report its digital license to Microsoft.

If connected to an EtherNet TCP/IP network, it will report its digital license to Microsoft in 5 minutes or less and the message will disappear. There will be no performance issues if not connected to a network, however, the ACTIVATE WINDOWS message will remain. There is no ability to manually report the digital license to Microsoft.



2.5. Configuration Menu

The FB2560 DAT Program provides an intuitive means for configuration and programming.

- Remote configuration of the instrument using a Network interface is also possible.
- There are three levels of access: **Standard Users**, **Supervisors**, and **Service Technicians**.
 - No LOGIN is required for standard Scale Operators.
 - Supervisors and Service personnel must **LOGIN** to gain access to the **CONFIGURATION menu**.





НОМЕ	Returns the operator to the Configuration Home page	
AUDIT TRAIL	Identifies how many times and when changes have been made to the scale's Calibration or Configuration settings.	
OPERATOR MENU	User access for Time/Date, Ticket Number, Load Cell Diagnostics, and Keyboard Tare entries.	
CONFIGURATION MENU	Supervisor access to communications programming and functions, ticket formats, programmable legends and prompts, camera inputs and weight threshold.	
RETURN TO WEIGHING	Returns the user to the Weighing Display Screen.	

2.6. Operator Menu

The **OPERATOR MENU** allows basic operations of the instrument.

- Allows access to change the time, date, ticket number, and the formatting of the time and date.
- Allows basic diagnostics of the load cells in the scale(s), with beneficial information for scale operations.

НОМЕ	BACK: HOME	Operator Menu	
AUDITTRAIL	Time and Date Format		
OPERATOR MENU	ime and Date		
CONFIGURATIONMEN	Ticket Number		
RETURN TO WEIGHING	Load Cell Diagnostics		
	New Tare		
	New Keyboard Tare	New Keyboard Tare	

• Selecting **BACK: HOME**_returns to the **Configuration Home Menu**.

2.6.1. Time and Date Format

- 1. Select TIME FORMAT from the choice
 - H:M H:M:S
 - HH:MM HH:MM:SS



2. Open the AM/PM option, which permits 12 hour or 24 hour format.

Section 2: Operations

Time and Date



- 3. Touch the **DATE FORMAT**, and then select best one for the company's needs.
- 4. Select one available DATE SEPERATOR formats include (SPACE), /, and –.

НОМЕ	BACK: OPERATOR MENU		Time
AUDIT TRAIL	Date Format:		CANCEL
OPERATOR MENU	M/D/YY	M/D/YYYY	•
CONFIGURATION MENU	MM/DD/YY	MM/DD/YYYY	
RETURN TO WEIGHING	D/M/YY D/M/YYYY		
	DD/MM/YY	DD/MM/YY	
	YY/M/D	YY/MM/DD	
	YYYY/M/D	YYYY/MM/DD	

ACK: OPERATOR MENU

Year: 2011

Minute: 8

Month: M Day: 30

March

8 AM

SAVE CHANGES

- 5. Press the **SAVE CHANGES** button when any changes are made, or they **will be lost**.
 - Select **BACK: OPERATOR MENU** to return to the **Operator Menu**.

AUDIT TRAIL

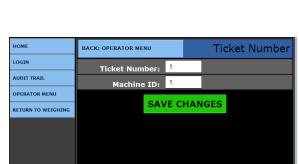
DEPATOR MENU

2.6.2. Set Time and Date

- 1. Enter the YEAR, MONTH, DAY, HOUR, and MINUTE options into the box next to the legend.
- Press the SAVE CHANGES button when any changes are made, or they will be lost.
- Select BACK: OPERATOR MENU to return to the Operator Menu.

2.6.3. Ticket Number

- 1. Enter the **TICKET NUMBER** by typing the correct value into the box next to the legend.
- Allows a maximum entry of **six (6) digits**.
- 2. Enter the **MACHINE ID** by typing the correct value into the box next to the legend.
- This value is used for customer identification purposes if required.



- \checkmark DEFAULT = 1
- 3. Press the **SAVE CHANGES** button when any changes are made, or they **will be lost**.
- Select **BACK: OPERATOR MENU** to return to the **Operator Menu**.



2.6.4. Load Cell Diagnostics

Instruments equipped with Intalogix[®] technology have load cell diagnostics features for easier troubleshooting capabilities.

- 1. To view the diagnostic information, select the correct scale.
- 2. Select **BACK: OPERATOR MENU** to return to the Operator Menu.

НОМЕ	BACK: OPERATOR MENU	Cell Diagnostics
	Scale ID 1 Diagnostics	
AUDIT TRAIL	Scale ID 2 Diagnostics	
	Scale ID 3 Diagnostics	
RETURN TO WEIGHING	Scale ID 4 Diagnostics	

A. SCALE ID X DIAGNOSTICS

The diagnostic screen gives a quick snapshot of how each load cell is performing.

- **CELL:** Identifies the load cell in the scale platform.
- STATUS: Compares the load cell output to stored calibration values and posts a GOOD or BAD condition.

НОМЕ	ВАСК: СЕ	LL DIAGNOSTICS	Diagnosti	cs - Scal	e ID 1
LOGIN	CELL	STATUS	COUNTS	GHOST	FLAG
AUDIT TRAIL	1	GOOD	2542	NO	
OPERATOR MENU					
RETURN TO WEIGHING					

- **COUNTS:** Displays the load cell's current counts.
- **GHOST:** Ability to electronically "mimic" or duplicate a load cell if equipped with an Intalogix[™] Interface for load cell communications (preventing system failure and/or shutdown).
- **FLAG:** Visual flags "*" are used to identify problem load cell(s) on diagnostic screen until flag is manually cleared This improves the ability to identify intermittent issues.
- Select **BACK: CELL DIAGNOSTICS** to return to the **Cell Diagnostics Menu**.



2.6.5. Entering a New Tare Automatically

- 1. Enter the **TARE ID** numeric value to store and recall a tare weight saved.
 - The **Tare Weight** value is either what is currently on the scale or was entered previously.
 - This value cannot be edited.
- 2. Select the correct **UNITS value**.
 - A **Tare Date** generates automatically when the Tare is entered.
 - The **Manual Tare** option is not used in this programming menu.
- 3. Enter the Vehicle Description.
 - This is a unique description or label for the tare weight, and how it is associated.



BACK: EDIT PRODUCTS	New Product
Units:	CANCEL
lb	
kg	
Ton	
tonne	
Newtons (N)	
	Units: Ib kg Ton tonne

2.6.6. Entering a New Tare using a Keyboard

- 1. Enter a new TARE ID numeric value to save and recall the tare Weight.
- 2. Enter the TARE WEIGHT manually using the keyboard.
- 3. Select the **UNITS** for the new Tare.
- The **Tare Date** records the date and time the tare generates automatically.
- The **Manual Tare** is a flag designating the tare is manually entered.
- 4. Enter the Vehicle Description.
- This is a unique description or label for the tare weight, and how it is associated.



- 5. Press the **SAVE CHANGES** button when any changes are made, or they **will be lost**.
- Select **BACK: OPERATOR MENU** to return to the **Operator Menu**.



2.7. Entry Sequence Prompts

The **SEQUENCE PROMPTS MENU** enables the built-in **customer and product prompts** for a combination of the **Inbound**, **Outbound**, or **GTN** operation sequences

The **Loop ID GTN** and **Tare GTN prompts** are also customized, enabled or disabled in this menu.

- While in the WEIGH SCREEN, press ALT + HOME on the external keyboard.
- 2. Select LOGIN.
- 3. Enter the **Write Customer Password** or **Service Password**.
- 4. Press the **ENTER** button.
- 5. Select the CONFIGURATION MENU.
- 6. Press the **PAGE FORWARD** button once.
- 7. Select ENTRY SEQUENCE PROMPTS.
- 8. In the LOOP ID GTN menu, enter **YES** to *enable* or **NO** to *disable* the LOOP ID PROMPT when a GTN operation is performed.
- 9. In the **TARE GTN** menu, enter **YES** to enable or **NO** to disable the **TARE PROMPT** when a GTN operation is performed.
 - The Loop ID GTN and Tare GTN must both be set to YES to perform the Auto IN/OUT operation.

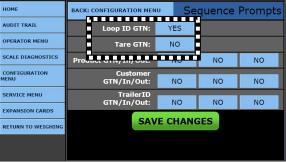
10. In the PRODUCT, CUSTOMER and TRAILERID menus, enter YES to enable or NO to disable the Tare prompt when a GTN operation is performed.

Trailer ID will prompt for the operator to enter a trailer ID during the selected transaction.

Selecting an entry out of the tare table will allow for a separate tare value to be recalled for the trailer. The total tare for calculating the net weight will be the sum of the truck tare and the trailer tare.

- Press the SAVE CHANGES button, or they will be lost.
- Select **BACK: CONFIGURATION MENU** to return to the previous menu.

	DACK: HOME	Configuration Menu		
AUDIT TRAIL				
OPERATOR MENU	Entry Sequence Prompts			
CONFIGURATION MENI	ronnat-rickets			
SERVICE MENU	Remote Display			
EXPANSION CARDS	Configure Outputs			
RETURN TO WEIGHING	Loopback Test			
	Vehicle Image Type			
	PAGE BACK	PAGE FORWARD		



НОМЕ	BACK: CONFIGURATION MENU	Sequence Prompts
AUDIT TRAIL	Product GTN/In/	Out: CANCEL
OPERATOR MENU	NO	
CONFIGURATION MENU	YES	
SERVICE MENU		
EXPANSION CARDS		
RETURN TO WEIGHING		



2.8. Edit Customers

The FB2560 DAT stores customer's name and address, as well as information used for reporting accumulated weights.

2.8.1. Adding or Editing Customers

- 1. Press ALT + Home.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select the CONFIGURATION MENU
- 5. Press DATABASE EDITORS.

6. Select EDIT CUSTOMERS.

HOME	ВАСК: НОМЕ	Configuration Menu			
AUDIT TRAIL	Write Customer Pa	Write Customer Password			
OPERATOR MENU	Write Remote Custo	Write Remote Customer Password			
CONFIGURATION MENU	00000000000	111111111100000000000000000000000000000			
RETURN TO WEIGHING	Database Editors				
<mark>-</mark>	Database Maintenance				
	Reports				
	Programmable Leg	Programmable Legends			
		PAGE FORWARD			

НОМЕ	BACK: CONFIGURATION MENU
AUDITTRAIL	Edit Customers
	Lar 24 Juan ar 64 Ja 900000000000000000000000000000000000
CONFIGURATION MENU	Edit Products
RETURN TO WEIGHING	Edit Tares
	Delete Incomplete
	Clear Totals

The first time a customer will be entered, the screen will appear as shown.

7a. Press the **NEW CUSTOMER** button.



OR...

7b. Select the existing **customer record** which needs editing or updating.

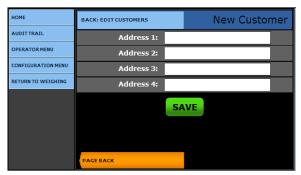
НОМЕ	BACK: DATABASE EDITORS	Edit Customers			
AUDIT TRAIL	Customer 1				
	Customer 2				
	Customer 3				
RETURN TO WEIGHIN					
	NEW COSTOMER				



2.7.1. Adding or Editing Customers, Continued

- 8. Enter the unique customer number in the **CUSTOMER ID data entry box**.
- When selecting a preexisting Customer, the **Customer ID** will generate automatically.
- The **TOTAL** data entry box is automatically populated and updated at every weighment that uses the **Customer ID Value**.
- This provides a running total of Net weight for each customer.
- Input any pertinent company information in the ADDRESS ONE thru FOUR (1 - 4) data entry boxes.
- Include customer names, addresses, telephone numbers, fax numbers, and point-of-contact names.

НОМЕ	BACK: EDIT CUSTOMERS			Nev	v Customer
AUDITTRAIL	Customer ID:				
OPERATOR MENU	Units:	lt	b		
CONFIGURATION MENU	Total:	0			
RETURN TO WEIGHING	Product Group:	NO	NE		
		SA	VE		
					PAGE FORWARD



 Press the SAVE CHANGES button when any changes are made, or they will be lost. Select BACK: DATABASE EDITORS to return to the Database Editors menu.

OR

• Select **BACK: EDIT CUSTOMERS** to return to the **Edit Customers menu**.



2.9. Editing Products

The FB2560 DAT can store a great deal of information about products.

- The product id, conversion factor, conversion factor units, and number of decimal places are entered as information used for reporting such as accumulated weights.
- This menu adds new product or edits existing product.
- A Supervisor or Service level access is required to add or edit the products.

2.9.1. Adding or Editing Products

- 1. Select LOGIN.
- 2. Enter the Supervisor Password.
- 3. Select the **CONFIGURATION MENU**.
- 4. Click on the **DATABASE EDITORS** button.

НОМЕ	BACK: HOME	Configuration Menu			
AUDIT TRAIL	Write Customer Password				
OPERATOR MENU	Write Remote Customer Password				
CONFIGURATION MENU					
RETURN TO WEIGHIN	Database Editors				
80	Lacavase manifesturies and a construction of the construction of t				
	Reports Programmable Legends				
		PAGE FORWARD			

5. Select EDIT PRODUCTS.

номе	BACK: CONFIGURATION MENU	Database Editors
AUDIT TRAIL	Edit Customers	
	Edit Products	
RETURN TO WEIGHIN	Edic rares	
	Delete Incomplete	



2.8.1. Adding or Editing Products, Continued

6a. Press the **NEW PRODUCT** button to generate a new one.

OR

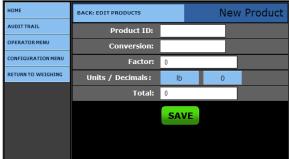


6b. To edit or update an existing product, press the correct **PRODUCT X** button from the list.



OR

- 6c. For a pre-existing product, enter the **PRODUCT ID** in the data entry box.
- 7. Each product entered has an identification value for recalling it in the weighing process.
- 8. Enter a Product's Label in the **Conversion** entry field.
- TONS, METRIC TONS, TONNES, and BUSHELS are some examples of labels.





2.8.1. Adding or Editing Products, Continued

- 9. Enter the **FACTOR** value in the entry field.
- This value converts the weight to another unit's value.
- The Factor is multiplied by the Net Weight of a transaction.
- To obtain the Factor, divide the conversion value of the unit into ONE (1).

EXAMPLES	
2000 lbs = 1 ton	56 lb = 1 bushel of shelled corn
Factor = 1/2000	Factor = 1/56
Factor = .0005	Factor = 0.017857

- The **Total** data entry box is automatically populated and updated upon every weighment which utilizes the **Product ID value**.
 - This provides a running total of **Net Weight** for each product.
 - Manually enter a **ZERO** to reset the accumulator.

The **UNITS / DECIMALS** selects the units of the running **Total**, and the accuracy of the conversion resultant product for each transaction weighment calculation.



10. Press the **UNITS** button to select the measurement unit processed and displayed for each Product.

HOME	BACK: EDIT PRODUCTS	New Product
AUDITTRAIL	Units / Decimals:	CANCEL
OPERATOR MENU	lb	
CONFIGURATION MENU	kg	
RETURN TO WEIGHING	Ton	
	tonne	
	Newtons (N)	



2.8.1. Adding or Editing Products, Continued

- 11. Press the **DECIMALS** button to select the number of places to the right of the decimal for the conversion result.
- 12. Enter the **TOTAL** quantity of the Product.





- 13. Press the **SAVE** button when any changes are made, or they will be lost
- Select **BACK: EDIT PRODUCTS** to return to the **Edit Products Menu**.

НОМЕ	BACK: EDIT PRODUCTS	New Product
AUDIT TRAIL	Units / Decimals:	CANCEL
OPERATOR MENU	0	
CONFIGURATION MENU	1	
RETURN TO WEIGHING	2	
	3	
	4	
	5	
	6	



2.10. Product Groups

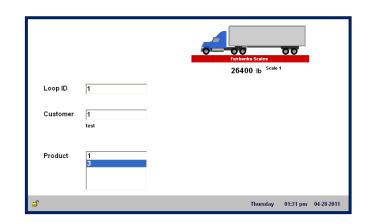
A **PRODUCT GROUP** is a filter to permit only specifically selected products to be used by a customer.

- These groups are assigned to a customer from the Edit Customers menu.
- Supervisor or Service Level access is required to add or edit these Product Groups.

WORKING EXAMPLE

A vehicle weighs Inbound on the scale. The scale operator is prompted for **Loop ID**, **Customer ID**, and **Product ID**. When the **Product ID** is selected, a drop-down menu appears with the products the customer is limited to use.

Product IDs must be created first, before a Product Group is created.



2.10.1. Adding or Editing Product Groups

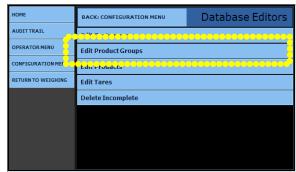
- 1. Press the **MENU** key.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select the **CONFIGURATION MENU**.
- 5. Select DATABASE EDITORS.

НОМЕ	ВАСК: НОМЕ	Configuration Menu
AUDIT TRAIL	Write Customer Password	
OPERATOR MENU	Write Remote Customer Password	
CONFIGURATION MENU	Blind Counter	
RETURN TO WEIGHING	<u>. </u>	
i i i i i i i i i i i i i i i i i i i	Database Maintenance	
•	н <mark>жери с</mark> ало 1990 областно со 1990 областно Programmable Legends	
		PAGE FORWARD



2.10.1. Adding or Editing Product Groups, Continued

6. Select EDIT PRODUCT GROUPS.



- 7. Assign a **GROUP NAME** for the new Product Group. Place a check besides the product(s) to be included in the group.
- 8. Press the **SAVE** button when any changes are made, or they will be lost
- 9. Check any of the Products, then press the **DELETE** button to remove the Product Group.
- Select BACK: EDIT PRODUCTS GROUP to return to the Edit Products Group Menu.









2.10.2. Edit Tags

- **TAG ID Stickers** are placed on the vehicle windshield or front license plate.
- **TAG ID Numbers** are recorded and placed in a **TAG TABLE**.
- The **TAG** entries are taken from the applicable tables, and the **Customer** and **Product** data can be edited as needed.
- **RFID Readers** identify each vehicle's **TAG ID** as it enters the scale.

Whenever a vehicle with a matching **TAG ID** is found on a **TARE TABLE** record, weight from the **TARE RECORD** is used to calculate transaction figures.

If the **RFID Reader** does not identify the tag within its database, a notification message appears.

Follow these steps to create a **NEW TAG**.

- 1. In the **CONFIGURATION MENU**, open **DATABASE EDITORS**.
- 2. Select EDIT TAGS.

НОМЕ	BACK: HOME		Configuration Menu
AUDITTRAIL	Write Customer Password		
OPERATOR MENU	Write Remote Customer Password		
CONFIGURATION MENU	Riot Coatroo o		
RETURN TO WEIGHING	Database Editors		
8	Catabuse hananane second		
	Reports		
	Programmable Le	gends	
			PAGE FORWARD

HOME	BACK: CONFIGURATION MENU	Database Editors
AUDITTRAIL	Edit Customers	
OPERATOR MENU	Edit Product Groups	
CONFIGURATION MENU	Edit Products	
RETURN TO WEIGHING	54430366666666666666	
	Edit Tags	
8		
	Clear Totals	

3a. Either press the **NEW TAG** button.

0R...

3b. **Double-click** on any one of the previously created **Tags**, then edit it as needed,

номе	BACK: DATABASE EDITORS	Edit Tags
AUDIT TRAIL	Tag 4424	
OPERATOR MENU	-13013300000000000000000000000000000000	
CONFIGURATION MEN	Tag 111115	
SERVICE MENU	Tag 2679 Tag 32105 Tag 55590	
EXPANSION CARDS		
RETURN TO WEIGHING		
	Tag 44667	0000
	NEW TAG	

Either select a previously created **Tag**, or press the **NEW TAG** button.



2.10.2. Edit Tags, Continued CREATING A NEW TAG

If the RFID Reader does not identify the tag within its database, a notification message appears.

1. Press the **NEW TAG** button.

HOME	BACK: DATABASE EDITORS	Edit Tags
AUDIT TRAIL	Tag 4424	
OPERATOR MENU	Tag 59473	
CONFIGURATION MENU	Tag 111115	
SERVICE MENU	Tag 2679	
EXPANSION CARDS	Tag 32105	
RETURN TO WEIGHING	Tag 55590	
	Tag 44667	
	NEW TAG	

- 2. Enter the truck's **TAG ID**.
- If one is already displaying and the other information is incomplete, verify and use the number.
- Complete the other input fields.
- 3. If it applies, open the **TARE ID**.
- 4. Open the **CUSTOMER** option and double-click on the correct one from the list.

НОМЕ	BACK: EDI	T TAGS		000000	New Tag
AUDIT TRAIL		Tag ID:			
OPERATOR MENU		Tare ID:	NONE		
CONFIGURATION MENU		Customer:	NONE		
SERVICE MENU		Product:	NONE		-
EXPANSION CARDS			GANE		
RETURN TO WEIGHING			SAVE		

HOME	BACK: DATABASE EDITORS	Edit Tags
AUDITTRAIL	Tag 4424	
OPERATOR MENU	Tag 4425	
CONFIGURATION MENU	Tag 1112	
RETURN TO WEIGHING	Tag 1979	
	Tag 1113	
	Tag 1114	
	NE	W TAG

- 5. If it applies, open the **PRODUCT** option, and click on the correct **NUMBER** from the list.
- 6. Click **SAVE**.

HOME	BACK: EDIT TAGS	New Tag
AUDIT TRAIL	Product:	CANCEL
OPERATOR MENU	NONE	
CONFIGURATION MENU	12345	
SERVICE MENU	23456	
EXPANSION CARDS	98765	
RETURN TO WEIGHING	11122	
	37895	
	55667	
	19483	
	44555	



2.10.2. Edit Tags, Continued

EDITING A TAG

1. Double-click on the **TAG** to be edited.

НОМЕ	BACK: DATABASE EDITORS	Edit Tags
AUDIT TRAIL	Tag 4424	
OPERATOR MENU	Joc 5947300000000000000000	00000005
CONFIGURATION MENU	Tag 111115	
SERVICE MENU	\	
EXPANSION CARDS	Tag 32105	
RETURN TO WEIGHING	Tag 55590	
	Tag 44667	
	NEW TAG	

- 2. Open and complete the **TARE ID**, **CUSTOMER** or **PROCUCT** options.
- 3. Double-click on the correct choice within the option window.
- Press the SAVE CHANGES button, or all changes will be lost.
- This exits to the Edit Tares Menu

НОМЕ	BACK: EDIT TAGS		Edit Tag 111	115
AUDIT TRAIL		Tag ID: 111115		
OPERATOR MENU		e ID: NONE		2
CONFIGURATION MENU	Custo	mer: 567733		2
SERVICE MENU	Proc	luct: 98765		2
EXPANSION CARDS				<mark>z</mark>
RETURN TO WEIGHING	DELETE	SAV	VE CHANGES	8
	Čeeeeeee			,



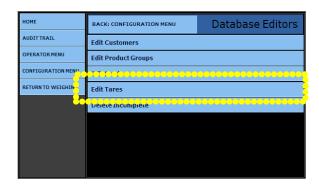
2.11. Creating and Editing Tares

The **Edit Tares** option provides a quick access to both Keyboard and Key Tare stored tares from one menu screen for adding or editing stored tares.

- 1. Press **ALT + HOME**.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select the **CONFIGURATION MENU**.
- 5. Press to select **DATABASE** EDITORS.

номе	BACK: HOME	Configuration Menu		
AUDIT TRAIL	Write Customer Password			
OPERATOR MENU	Write Remote Custo	mer Password		
CONFIGURATION MENU	and corrected	, 		
	Database Editors			
<mark>80</mark>				
	Reports			
	Programmable Legends			
		PAGE FORWARD		

6. Select EDIT TARES.



 Select an existing tare to edit one, or press the **NEW TARE** or **KEYBOARD TARE** button to add one.

номе	BACK: DATABASE EDITORS	ecococococococococococococococococococo
AUDIT TRAIL	Tare 2933	
OPERATOR MENU	Tare 1011	
CONFIGURATION MENU	Tare 3333	
RETURN TO WEIGHING	Tare 9999	
	Tare 2933	
	Tare 1299	
		<u> </u>
	NEW TARE	KEYBOARD TARE



2.10. Creating and Editing Tares, Continued

- 8. Enter the **TARE ID**.
 - This is a numeric value entered to store and recall the tare weight saved.
- 9. Enter the **TARE WEIGHT** from the scale.
 - This value cannot be edited.
- 10. Enter the **UNITS** from the available choices.

номе	BACK: OPERATOR MENU			New T	are
AUDIT TRAIL	Tare ID:				
OPERATOR MENU	Tare Weight:	0.0			
CONFIGURATION MENU	Units:	lb			
RETURN TO WEIGHING	Tare Date:	03/30/201	11 08:18	3:18 AM	
	Manual Tare:				
	Vehicle Description:				
		SAVE			

- 11. The **Tare Date** records the date and time the tare generates automatically.
- 12. The **Manual Tare** is a flag designating the tare is manually entered.
- 13. Enter the Vehicle Description.
 - This is a unique description or label for the tare weight and how it is associated.
- 14. Press the **SAVE** button when any changes are made, or they will be lost.
 - This exits to the Edit Tares Menu

Select BACK: OPERATOR MENU to return to the Operator Menu.

NOTE: Tares can now be used to refer to trucks and trailers separately. In **ENTRY SEQUENCE PROMPTS**, enable the **TRAILERID** entry.

Selecting an entry out of the tare table for the TRAILERID prompt will take the sum of the trailer and truck tare weights for use in calculating the net weight.



2.12. Deleting Incomplete Transactions

Through the course of normal operation of the FB2560 DAT, an error may occur. An **Incomplete Transaction** is then created.

Follow the steps below to remove and delete **Incomplete Transactions** from the database.

- 1. Press **ALT + HOME**.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select the **CONFIGURATION MENU**.
- 5. Select DATABASE EDITORS.
- 6. Select **DELETE INCOMPLETE**.
- Select the Incomplete Transaction which is to be deleted by pressing the *correct* DELETE button.
- Select BACK: DATABASE EDITORS to return to the Database Editors Menu.

 HOME
 BACK: HOME
 Configuration Menu

 AUDIT TRAIL
 Write Customer Password

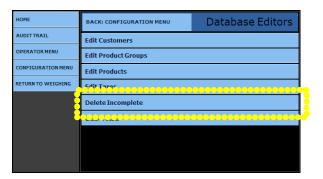
 operator Menu
 Write Remote Customer Password

 CONFIGURATION MENU
 BS-150125

 RETURN TO WEIGHING
 BS-150125

 RETURN TO WEIGHING
 BS-150125

 Programmable Legends
 PAGE FORWARD



НОМЕ	BACK: DATABASE EDITORS		Del	ete Inco	mpletes
AUDIT TRAIL	LOOP ID	PRODUCT	CUS	TOMER	
OPERATOR MENU	DATE	TIME	SCALE	WEIGHT	10000000
OPERATORITENO	775	3		3	DELETE
CONFIGURATION MENU	04-20-2011	11:15 am	1	69520.0	
	4302	1		1	DELETE
RETURN TO WEIGHING	04-20-2011	11:16 am	1	29580.0	
	9872	3		2	DELETE
	04-20-2011	11:17 am	1	36540.0	

NOTE: It is recommended to perform database maintenance by running the **Vacuum Database operation** after deleting transaction records.





2.13. Reports

The FB2560 DAT generates multiple built in reports that vary from **Master Lists** of customers, products, tares, and operators.

- These includes Transaction Reports and Summary Reports.
- 1. Select LOGIN.
- 2. Enter the Supervisor Password.
- 3. Select CONFIGURATION MENU.
- 4. Press **REPORTS** to access the report list.

ВАСК: НОМЕ	Configuration Menu	
Write Customer Pa	ssword	
Write Remote Custo	mer Password	
Blind Counter		
Database Editors		
100000000		
Reports		
Programmable Lég	ends	
	PAGE FORWARD	
	Write Customer Pa Write Remote Custo Blind Counter Database Editors	

5. Select the type of report from the report list.

НОМЕ	BACK: CONFIGURATION MENU	Reports
AUDIT TRAIL	Master File Lists	
OPERATOR MENU	Transaction Reports	
CONFIGURATION MENU	Summary Reports	
RETURN TO WEIGHING	Email Transaction	
	Calibration Report	
	Manage Report Headers	

2.13.1. Master File Reports

The **MASTER FILE** reports are listings of all the data stored under each category available.

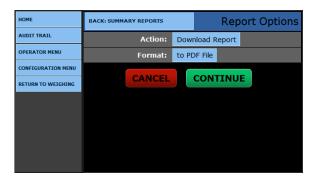
- Customer List
- Product List
- Product Group List
- Stored Tare
 List
- 1. Select the correct **Report** from the **MASTER FILE LISTS**.

НОМЕ	BACK: REPORTS	Master File Lists
AUDIT TRAIL	Customer List	
OPERATOR MENU	Product List	
CONFIGURATION MENU	Product Groups List	
RETURN TO WEIGHING	Stored Tare List	



2.13.1 Master File Reports, Continued

- 2. Select the correct button In the **ACTION** window.
 - Print Report
- Email Report
- Export Report
- 3. Select the correct button In the **FORMAT** window.
- Print Email Export Report Report Report
- 4. Press the **CONTINUE** button to begin the print operation.
- 5. Press the **CANCEL** button at any time to cancel the report operation.



BACK: MASTER FILE LISTS	Report Options
Action:	CANCEL
Print Report	
Email Report	
Export Report	
	Print Report

HOME	BACK: SUMMARY REPORTS	Report Options
AUDIT TRAIL	Format:	CANCEL
OPERATOR MENU	to PDF File	
CONFIGURATION MENU	to CSV Text File	
RETURN TO WEIGHING	to HTML File	

		*** ***		
	(Customer Listing		
		0/2011 - 04/20/20)11	
Customer ID	Address 1	Address 2	Address 3	Address 4
1	ABC Company	123 ABC Road	Abcville, MT 09876	908-223-7765
2	Acme Consolidated Goods	7601 Plantation Ave	Plaunch, NE 76854	455-667-6521
3	XYZ Specialties	10109 NE 61st Street	Richmond, MO 64018	913-234-4260

	*** ***	
04/	Product Listing 20/2011 - 04/20/201	11
0472	20/2011 - 04/20/201	
Product ID	Product Description	Factor
1	Coal	0.0005
3	Wheat	0.0018
2	3/4 Rock	0.0005

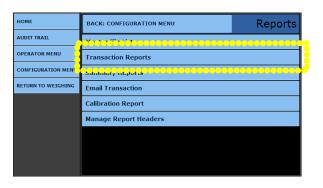
Shown above are two examples of Master File Reports.



2.13.2. Transaction Reports

- 1. Select LOGIN.
- 2. Enter the SUPERVISOR PASSWORD.
- 3. Select CONFIGURATION MENU.
- 4. Press **REPORTS** to access the report list.

НОМЕ	ВАСК: НОМЕ	Configuration Menu						
AUDIT TRAIL	Write Customer Pa	issword						
OPERATOR MENU	Write Remote Custo	Write Remote Customer Password						
CONFIGURATION MENU	Blind Counter							
RETURN TO WEIGHING	Database Editors							
6	1910000000	122220000000000000000000000000000000000						
2	Reports	Reports						
	Programmable Légénds							
		PAGE FORWARD						



 Select the TRANSACTION REPORTS Menu to choose from several reports.

номе	BACK: REPORTS	Transaction Reports
AUDIT TRAIL	Completed Transactio	ons
OPERATOR MENU	Completed Export	
CONFIGURATION MEN	Incomplete Transacti	ons
RETURN TO WEIGHING	Report by Product	
8	Report by Customer	
	Voided Transactions	
	Scale Activity Summa	γ
<mark> </mark>	••••••	••••••
		PAGE FORWARD

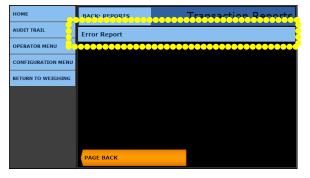
- 6. Select a **TRANSACTION REPORT** option from the list below.
 - Completed
 Completed Export
 Transactions

•

- Incomplete
 Transactions
- Report by Customer
- Scale Activity
 Error Report Summary
 - These process by using the weighment data.

Report by Product

Voided Transactions





- 1. Select from the **REPORT OPTIONS MENU** for the method of printing the report.
- 2. Select the correct button In the ACTION window.
 - Print Email Report Report
 - Export Report
- 3. Select the correct button In the FORMAT window.
 - To PDF To CSV To HTML File **Text File** File
- 4. Press the **CONTINUE** button to begin the print operation.
- 5. Press the **CANCEL** button at any time to cancel the report operation.

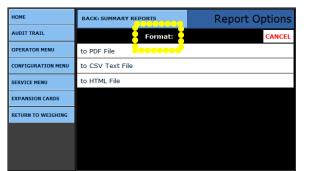
HOME	BACK: TRANS	ACTION REPORT			ort Options
AUDIT TRAIL		Action:	Email R	eport	<u>.</u>
OPERATOR MENU		Format:	to PDF	File	8
CONFIGURATION MENU	8				2
SERVICE MENU		CANCEL	C	ONTINUE	
EXPANSION CARDS					
RETURN TO WEIGHING					

HOME	BACK: MASTER FILE LISTS	Report Options
AUDIT TRAIL	Action:	CANCEL
OPERATOR MENU	Print Report	
CONFIGURATION MENU	Email Report	
SERVICE MENU	Export Report	
EXPANSION CARDS		
RETURN TO WEIGHING		

- 6. In the DATE SELECTION MENU, set the START YEAR, MONTH and DAY.
- 7. Set the End Year, Month and Day.

Default = THE CURRENT DATE.

- 8. Press the **CONTINUE** button to begin the print operation.
- 9. Press the **CANCEL** button at any time to cancel the report operation.
- Select BACK: TRANSACTION **REPORTS** to return to the **Transaction** Reports Menu.







- The Completed Transaction Report includes some or all of the following items.
- Date Ranges
- Times and Dates of Transactions
- Ticket Numbers
- Weight Totals

Customer IDs

				completed T 4/20/2011 -					
				Transacti	ons in Ib				
Ticket	Date	Time	Loop ID	Product ID	Customer	Gross	Tare	Net	Units
1	4/20/2011	10:42 am	1	1	1	100000.0	40000.0	60000.0	16
2	4/20/2011	10:53 am	2	2	2	40000.0	40000.0	0.0	16
3	4/20/2011	11:03 am	11	3	3	75740.0	20000.0	55740.0	16
4	4/20/2011	11:04 am	22	3	3	68140.0	40000.0	28140.0	16
5	4/20/2011	11:05 am	33	1	1	80100.0	35780.0	44320.0	lb
6	4/20/2011	11:05 am	44	2	2	77260.0	15800.0	61460.0	16
7	4/20/2011	11:06 am	3	3	3	77240.0	20000.0	57240.0	lb
8	4/20/2011	11:07 am	4	2	3	71600.0	20000.0	51600.0	16
Total						590080.0	231580.0	358500.0	16

Shown above is an example of a **Complete Transaction Report**.

- Shown to the right is an example of an **Incomplete Report**.
- Incoming Loop Numbers
 Weight
- Product IDs

			*** ***						
Incomplete Transactions 04/20/2011 - 04/20/2011									
Loop ID	Date	Time	Product ID	Customer	Inbound Wt	Units			
775	04-20-2011	11:15 am	3	3	69520.0	16			
4302	04-20-2011	11:16 am	1	1	29580.0	1b			
9872	04-20-2011	11:17 am	7	2	36540.0	1b			

Shown above is an example of an **Incomplete Transaction Report.**

• The **Report by Product** groups like products together and provides total weights for each product, which has been processed over the date range entered.

*** *** Report by Product 04/20/2011 - 04/20/2011									
Product Units Ib									
Product ID Ticket Date Time Loop ID Customer Gross Tare Net Units									
1	1	4/20/2011	10:42 am	1	1	100000.0	40000.0	60000.0	16
1	5	4/20/2011	11:05 am	33	1	80100.0	35780.0	44320.0	1Ь
Total						180100.0	75780.0	104320.0	16
				Product 2	Units 1b				
Product ID	Ticket	Date	Time	Loop ID	Customer	Gross	Tare	Net	Units
2	2	4/20/2011	10:53 am	2	2	40000.0	40000.0	0.0	16
2	6	4/20/2011	11:05 am	44	2	77260.0	15800.0	61460.0	1b
2	8	4/20/2011	11:07 am	4	3	71600.0	20000.0	51600.0	lb
Total						188860.0	75800.0	113060.0	1Ь
Product 3 Units Ib									
Product ID	Ticket	Date	Time	Loop ID	Customer	Gross	Tare	Net	Units
3	3	4/20/2011	11:03 am	11	3	75740.0	20000.0	55740.0	16
3	4	4/20/2011	11:04 am	22	3	68140.0	40000.0	28140.0	16
3	7	4/20/2011	11:06 am	3	3	77240.0	20000.0	57240.0	16
Total						221120.0	80000.0	141120.0	16

Shown above is an example of a **Report by Product.**



• Like the report above, the **Report by Customer** will group like customers together and provides total weights for each customer which has been processed over the date range entered.

	*** *** Report by Customer 04/20/2011 - 04/20/2011								
	Customer 1 Units 1b								
Customer	Ticket	Date	Time	Loop ID	Product ID	Gross	Tare	Net	Units
1	1	4/20/2011	10:42 am	1	1	100000.0	40000.0	60000.0	16
1	5	4/20/2011	11:05 am	33	1	80100.0	35780.0	44320.0	16
Total						180100.0	75780.0	104320.0	1b
				Customer	2 Units lb				
Customer	Ticket	Date	Time	Loop ID	Product ID	Gross	Tare	Net	Units
2	2	4/20/2011	10:53 am	2	2	40000.0	40000.0	0.0	16
2	6	4/20/2011	11:05 am	44	2	77260.0	15800.0	61460.0	1b
Total						117260.0	55800.0	61460.0	16
				Customer	3 Units lb				
Customer	Ticket	Date	Time	Loop ID	Product ID	Gross	Tare	Net	Units
3	3	4/20/2011	11:03 am	11	3	75740.0	20000.0	55740.0	16
3	4	4/20/2011	11:04 am	22	3	68140.0	40000.0	28140.0	16
3	7	4/20/2011	11:06 am	3	3	77240.0	20000.0	57240.0	16
3	8	4/20/2011	11:07 am	4	2	71600.0	20000.0	51600.0	16
Total						292720.0	100000.0	192720.0	16

Shown above is an example of a **Report by Customer.**

• The **Voided Transactions** report lists all transactions which have been voided over the date range entered.

			ed Transa 2011 - 04/2				
		т	'ransactions in	īb			
Ticket	Loop ID	Product ID	Customer	Gross	Tare	Net	Units
2	2	2	2	40000.0	40000.0	0.0	1b
Total				40000.0	40000.0	0.0	1b

Shown above is an example of a **Voided Transactions.**

- The Scale Activity Summary, or Blind Counter Report lists the number of weighments which have exceeded the Threshold setting.
 - No tickets are produced and the transaction is not stored or saved.

	*** ***
Scale	Activity Report
	011 - 04/20/2011
Scale	Blind Counts
Scale 1	0
Scale 2	0
Scale 3	0
Scale 4	0
Scale 5	0
Scale 6	0
Scale 7	0
Scale 8	0

Shown above is an example of a **Scale Activity Report.**



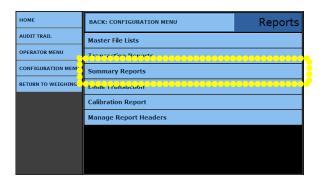
- The Error Report lists all the errors which have occurred in the operation of the instrument.
 - It details the specifics of each error code and the error parameters.
 - The report also details if the error is enabled for reporting. The last occurrence details the time and date the error occurred.

		04	*** * Error Re 4/20/2011 - (eport		
Error Code	Descriptio n	Parameter 1	Parameter 2	Recipients	Last Occurence	Enabled?
BCI	BLIND COUNTER INCREMEN T	SCALE	COUNT		Thu Mar 10 15:03:43 - 0500 2011	true
CCB	CONFIG / CALIB NEEDS BACKUP				Wed Apr 20 10:39:39 - 0400 2011	true
CME	CELL MOTION ERROR	CELL			Fri Mar 11 00:00:00 - 0500 2011	true
CWE	CALIBRATI	CELL			Fri Mar 1100-00-00 -	true

Shown above is an example of an **Error Report.**

2.13.3. Summary Reports

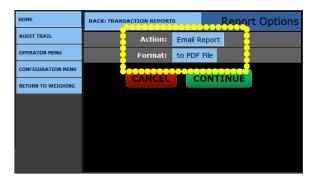
1. Select the **SUMMARY REPORTS** for a general summary of transaction activities for customers or products.



2. Select whether the Report is **BY CUSTOMER** or **BY PRODUCT**.



3. Select from the **REPORT OPTIONS MENU** for the method of printing the report.





2.13.3. Summary Reports, Continued

4. Select the correct button In the **ACTION** window.

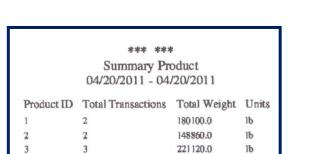
٠	Print	
	Report	

Email Report Export Report

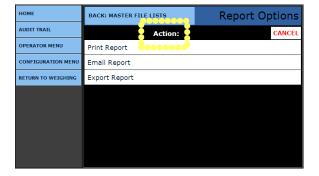
- 5. Select the correct button In the **FORMAT** window.
 - To PDF To CSV To HTML File Text File File
- 6. Select the appropriate **Date Range** for the report.
 - The default values will be the current date.
- 7. Select the specific **CUSTOMER** or select **ALL** (Customers).
- 8. Press the **CONTINUE** button to process the report.
- 9. Selecting the **CANCEL** button will abort the process.
 - Select **BACK: HOME** to return to the **Home Menu**.

8mmary Customer 04/20/2011 - 04/20/2011					
Customer	Total Transactions	Total Weight	Units		
1	2	180100.0	1 b		
2	1	77260.0	1 b		
3	4	292720.0	16		

Shown above is an example of a **Customer Summary Report**.



Shown above is an example of a **Product Summary Report.**



HOME	BACK: SUMMARY REPORTS	Report Options
AUDIT TRAIL	Format:	CANCEL
OPERATOR MENU	to PDF File	
CONFIGURATION MENU	to CSV Text File	
RETURN TO WEIGHING	to HTML File	

НОМЕ	ВАСК: НОМЕ	Select Dates
AUDIT TRAIL	Start Year:	2011
OPERATOR MENU	Start Month:	April
CONFIGURATION MENU	Start Day:	26
RETURN TO WEIGHING	End Year:	2011
	End Month:	April
	End Day:	26
	Customer:	* ALL *
	CANCEL	CONTINUE



2.13.4. Email Transaction

IMPORTANT NOTE: Configuring the instrument to send email notifications will require a service technician. The instructions below will allow for the modification of existing transaction emails, but if new DAT notifications are needed contact your service provider."

The EMAIL TRANSACTION sends an email to a maximum of three (3)

recipients, which contains one (1) Transaction Record.

- All the email server, user, etc configuration must be done and tested.
- Set the cameras to "Yes" to include pictures. See section <u>6.3.2. Camera Setup</u>
- 1. Enter the valid **TICKET NUMBER** to open a Transaction Record.
- 2. Enter up to three (3) email addresses.
- 3. Press the **CONTINUE** button to process the report.
 - Select the **CANCEL** button will abort the process.
 - Select **BACK: REPORTS** to return to the **Reports Menu**.

номе	BACK: REPORTS	Email Transaction
AUDIT TRAIL	Ticket Number	r:
OPERATOR MENU	Recipient 1	L:
CONFIGURATION MENU	Recipient 2	2:
RETURN TO WEIGHING	Recipient 3	3:
	CANCE	CONTINUE



2.13.5. Transaction Email

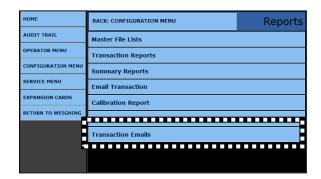
IMPORTANT NOTE: Configuring the instrument to send email notifications will require a service technician. The instructions below will allow for the modification of existing transaction emails, but if new DAT notifications are needed contact your service provider."

Only when a transaction is *fully complete*, it is emailed to the recipient(s).

- Incomplete Transactions are still pending, and unsent.
- The last window shown in this section detail how to attach an image to the Transaction Email.
- The image of a license plate, actual truck or a person's face are useful examples for this option.
- <u>See Appendix IX: Setting up</u> <u>Transaction Emails</u>, for more information.

Follow these steps to send a **Transaction Email**.

1. Select TRANSACTION EMAILS.



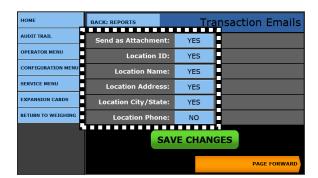
- 2. Selecting **YES** to any of the following options includes it within the email report.
- Send as Attachment delivers the email to each recipient in the PDF or CSV format.
- Location ID
- Location City/State
- Location Name
- Location Phone
- Location Address

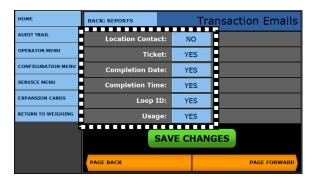
3. Press **PAGE FORWARD**.

- 4. Select **YES** to any of these following options includes the information within the email.
 - Location Contact
- Ticket

Completion

- Completion Date
 - Loop ID
- Time • Usage





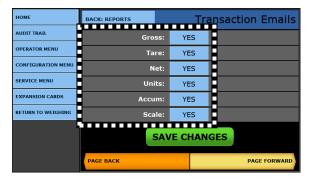


2.13.5. Transaction Email, Continued

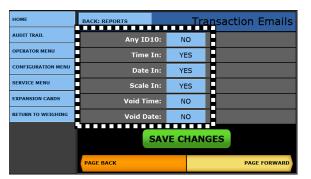
- 5. Press **PAGE FORWARD**.
- 6. Select **YES** to any of these options.
- Gross Units
- Tare
 Accum
 - Accumulated total
- Net
 Scale

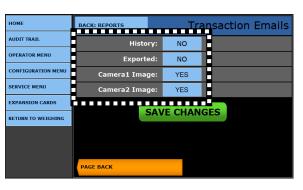
7. Press **PAGE FORWARD**.

- 8. Select **YES** to any of these options.
- Tare ID
- Product ID
- Customer ID
- Any ID1 thru Any ID10 Sequential prompts that can be modified to suit the customers' needs.
- 9. Press **PAGE FORWARD**.
- 10. Select **YES** to any of these options.
- Any ID 10
- Time In
- Date IN
- Scale In
- Void Time
- Void Date
- 11. When one or two cameras are installed on the site, select **YES** to **Camera1 Image**, **Camera2 Image**, or both.
- History
- Camera1 Image
- Exported
- Camera2 Image



НОМЕ	BACK: REPORTS		Tra	sactio	n Emails
AUDIT TRAIL	Tare ID:	YE			
OPERATOR MENU	Product ID:	YE	s		
CONFIGURATION MENU	Customer ID:	YE	s		
SERVICE MENU	Any ID1:	N	o a		
EXPANSION CARDS	Any ID2:	N	o		
RETURN TO WEIGHING	Any ID3:	N	o		
•	SAV	/E Cł	IANG	ES	
	PAGE BACK				PAGE FORWARD







NOTE: Always test and confirm the **Email System** by sending a report to a known email address.

Section 3: Audit Trail

3.1.1. Getting Started

- 1. Select LOGIN.
- 2. Enter the Supervisor Password.
- 3. Select AUDIT TRAIL.
- 4. Choose either CALIBRATION AUDIT TRAIL, or CONFIGURATION AUDIT TRAIL.

3.1.2. Calibration Audit Trail

In a **CALIBRATION REPORT**, the unique count value(s) can only be viewed, and not edited.

• Select **BACK: AUDIT TRAIL** to return to the Audit Trail Menu.

НОМЕ	ВАСК: НОМЕ	Audit Trail
LOGIN	Calibration Audit Trail	
AUDIT TRAIL	Configuration Audit Trail	
OPERATOR MENU		
RETURN TO WEIGHING		

НОМЕ	BACK: AUDIT	TRAIL	Calibration Repo		
LOGIN	Calibration				
AUDIT TRAIL	Scale	Time	Date	Count	
AUDIT IRAL	1	03:07 PM	10/29/2010	1	
OPERATOR MENU					
RETURN TO WEIGHING					

3.1.3. Configuration Audit Trail

The **CONFIGURATION AUDIT TRAIL** option is provided for a **Weights and Measures Official.**

- Such an official can view the **AUDIT TRAIL** for calibration and configuration changes.
- This option is limited to *view only access*.
- It displays the unique count value showing the date(s) and time(s) the calibration or configuration was changed for **up to one (1) scale**.

НОМЕ	BACK: AUDIT TRAIL		(Configurat	tion Report
LOGIN			Config	uration	
AUDIT TRAIL	Scale	Ti	me	Date	Count
AUDIT TRAIL	1	Ne	ver	Never	0
OPERATOR MENU					
RETURN TO WEIGHING					

• In a **CONFIGURATION REPORT**, the unique count value(s) can only be viewed, and not edited.

Section 4: Configuration Menu

4.1. Levels of Security

STANDARD USER OR W&M OFFICIAL ACCESS

- No password required.
- First Level Users can access these menus.
 - HOME
 AUDIT TRAIL
 - OPERATOR MENU
- RETURN TO WEIGHING

SUPERVISOR ACCESS

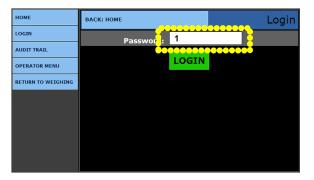
- Supervisor Password is required.
- It is suggested to change this password upon installation.
- Supervisor level users can also access the CONFIGURATION MENU.

4.2. Logging In – Supervisor Access

- 1. Press **ALT + HOME** to access the programming menus.
- 2. Select LOGIN.
- 3. Enter the Service **PASSWORD**.
- 4. Click the **LOGIN** button.

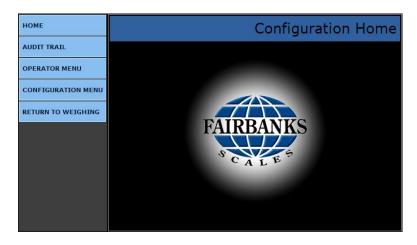
DEFAULT FIRST TIME USE PASSWORD FOR THE SUPERVISOR ACCESS IS "1".







4.3. Configuration Home Page



An external keyboard is required for programming access.

Press ALT + HOME t	to access the	e programming menus.
--------------------	---------------	----------------------

НОМЕ	Returns the user to the Configuration Home Page.
AUDIT TRAIL	Identifies how many times and when changes have been made to the scale's Calibration or Configuration settings.
OPERATOR MENU	User access for Time/Date, Ticket Number, Load Cell Diagnostics, and Keyboard Tare entries.
CONFIGURATION MENU	Used to access communications programming and functions, ticket formats, programmable legends and prompts, camera inputs and weight threshold.
RETURN TO WEIGHING	Returns the user to the Weighing Display Screen.



4.4. Configure Outputs

This menu configures data string protocols, configuration parameters, and output modes such as **Continuous, Demand, Auto, Network (Continuous)**, and **Network (Auto)**.

4.4.1. Configuring an Output Data String

To interface an FB2560 DAT to software or a pre-existing peripheral device, such as a remote display, knowing their specific Output Data String is *mandatory*.

- This allows the software or peripheral device to communicate with the FB2560 DAT for weight data.
- When adding to other manufacturer's devices, refer to their Service Manuals for Output Data String information.
- Interfacing with other manufacturer's software, refer to either a web site, Service Manual, or contact the manufacturer directly for the Output Data String information.

Fairbanks' current programming for setting up an **Output Data String** provides quick and easy flexibility for customizing the FB2560 DAT's Serial Outputs.

4.4.2. Two Methods of Formatting

There are two methods to format an Output Data String.

- Use one of the five (5) preconfigured outputs under the **LOAD** menu.
- Use an output string from the LOAD menu as a base configuration for customizing an output data string which will closely match the customer's specific configuration requirements. Edit the string as required in the BUILD menu.



4.4.3. Method 1 – Pre-configured Output

Follow these steps to configure an output data string on the FB2560 DAT, completed in the **Configuration Menu**.

- Using an external keyboard, press ALT + HOME.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select the **CONFIGURATION MENU** and press **PAGE FORWARD** once.
- 5. Select CONFIGURE OUTPUTS.
- Touch the screen to select CONFIGURE COM X, where X is the desired COM port location to configure the output data string.

HOME	ВАСК: НОМЕ	Configuration Menu	
AUDIT TRAIL	Programmable Pron	Programmable Prompts	
OPERATOR MENU	Entry Sequence Pro	ompts	
CONFIGURATION MENU	Format Tickets		
RETURN TO WEIGHING			
8	Configure Outputs		
ŏ	Lighta A I		
	PAGE BACK	PAGE FORWARD	

номе	BACK: CONFIGURATION MENU	Configure Outputs
AUDIT TRAIL	Edit RS485 ID	
OPERATOR MENU	IP Setun	
CONFIGURATION MEN	Configure COM1	
	Configure COM2	
e e e e e e e e e e e e e e e e e e e	Configure COM3	
<u> </u>	Configure COM4	
	0000000000000000000	

NOTE: In the following images, CONFIGURE COM1 was selected.



- 7. Select the **LOAD** button.
- This selection will bring up a menu a five (5) pre-configured outputs.

НОМЕ	BACK: CONFIGURE OUTPUTS	Configure COM1
AUDIT TRAIL	Settings	
	Load	
	rokens	
RETURN TO WEIGHING	Status Codes	
	Weights	

- When configuring an output data string, the Fairbanks' FB2560 DAT has seven (7) commonly used pre-configured outputs.
- 9. Select the correct data string type.

НОМЕ	BACK: CONFIGURE COM1	COM1 - Load
AUDIT TRAIL	Fairbanks	
OPERATOR MENU	Toledo	
CONFIGURATION MENU	Cardinal	
RETURN TO WEIGHING	Weightronix	
	Condec	
	DT7000 Anybus	
	SMA Protocol	

Displayed below are the data string protocols. *

FAIRBANKS <STX><A><C><GGGGGGG><TTTTTT><CR>

Toledo <STX><A><C><GGGGGGG<<TTTTTT><CR>

Cardinal <CR><P><WWWWW><M><SP><U><SP><G><SP><SP><ETX>

Weightronix < ><M><WWWWW>< ><U><CR><LF>

Condec <STX><SP><SP><WWWWW><U><G><M><CR><LF>

DT7000 Anybus

<\$TX><\$W0><\$W1><\$W2><UD><GW><TW>NW><\$P1><\$P2><FR><UD><CRC><XCH>

SMA Protocol <LF> <S> <R> <N> <M> <F> <XXXXXX.XXX> <UUU> <CR>

* See Appendix II: Data Output for further information.



10. Press the **YES** button to load the default configuration for the data protocol selected.



11.A successful load of the selected data output will be indicated as shown.

НОМЕ	BACK: CONFIGURE OUTPUTS	Configure COM1
AUDIT TRAIL	Fairbanks settings	loaded into COM1
OPERATOR MENU	Load	
CONFIGURATION MENU	Build	
RETURN TO WEIGHING	Tokens	
	Status Codes	
	Weights	

12. Verify the **CONFIGURATION BAUD, PARITY, STOP BITS** to be at the correct values.

номе	BACK: CONFIGURE COM1		COM1 -	Settings
AUDITTRAIL	Mode:	OFF		
OPERATOR MENU	Baud/Parity:	19200	Even	
CONFIGURATION MENU	Data Bits:	8		
RETURN TO WEIGHING	Stop Bits:	1		
	Checksum			
	Delimited			
	Include Legends			
	SAVE CHANGES			

OFF

19200

8

1

SAVE CHANGES

COM1 - Settings

Even



4.4.3. Method 1, Continued

- 13. Enter the **SETTINGS** menu to configure the settings as required.
- 14. Touch the data field to the right of the Mode legend and a list of items will appear from which a selection is made.
 - **MODE** This field determines how the data is transmitted.
 - OFF COM port is disabled.
 - CONTINUOUS The COM port transmits the data string continuously per every display update.
- HOME
 BACK: CONFIGURE COM1
 COM1 Settings

 AUDIT TRAIL
 Mode:
 CANCEL

 OPERATOR MENU
 OFF
 Configure Configure Com1
 Continuous

 CONFIGURATION MENU
 Continuous
 Demand
 Auto

 RETURN TO WEICHINC
 Demand
 Metwork (Continuous)

 Network (Auto)
 Network (Auto)

BACK: CONFIGURE COM1

Checksum
 Delimited
 Include Legends

Mode:

Baud/Parity:

Data Bits:

Stop Bits:

- **DEMAND** The data string is transmitted upon receiving the programmed poll character from a peripheral device.
- AUTO The data string is transmitted upon the printing of a transaction.

OME

AUDIT TRAIL

OPERATOR MENU

CONFIGURATION MENU

RETURN TO WEIGHING

- NETWORK (CONTINUOUS) The data string is transmitted continuously per every display update through the network connection.
- **NETWORK (AUTO)** The data string is transmitted upon pressing print and the printing of a transaction will transmit the transaction through the network connection.
- 15. Touch the data field to the right of the Baud legend and a list of items will appear from which a selection is made.
- 16. Select the required **BAUD** rate from the menu list.

НОМЕ	BACK: CONFIGURE COM1	COM1 - Settings
AUDIT TRAIL	Baud/Parity	CANCEL
OPERATOR MENU	115200	
CONFIGURATION MENU	57600	
RETURN TO WEIGHING	38400	
	19200	
	9600	
	4800	
	2400	
	1200	



- 17. Touch the data field to the right of the Parity legend and a list of items will appear from which a selection is made.
- 18. Select the required **PARITY** rate from the menu list.

- 19. Touch the data field to the right of the Data Bits legend and a list of items will appear from which a selection is made.
- 20. Select the required **DATA BIT** from the menu list.
- 21. Touch the data field to the right of the Stop Bits legend and a list of items will appear from which a selection is made.
- 22. Select the required **STOP BIT** from the menu list.

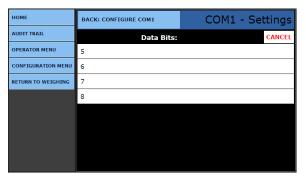
 HOME
 BACK: CONFIGURE COM1
 COM1 - Settings

 AUDIT TRAIL
 Baud/Parity:
 CANCEL

 OPERATOR MENU
 Even
 Mark

 CONFIGURATION MENU
 Mark
 Odd

 RETURN TO WEIGHING
 Odd
 Space



НОМЕ	BACK: CONFIGURE COM1	COM1 - Settings
AUDIT TRAIL	Stop Bits:	CANCEL
OPERATOR MENU	0	
CONFIGURATION MENU	1	
RETURN TO WEIGHING	2	

- 23. Press the **SAVE CHANGES** button when any changes are made otherwise the changes will be lost.
- 24. Select **RETURN TO WEIGHING** to test and verify the output is producing the desired results.
- Selecting BACK: CONFIGURE COM1 returns to the CONFIGURE COM1 Menu.





4.4.4. Method 2 - Customizing Output Data Strings

The FB2560 DAT can also be customized to support numerous manufacturers software interfaces to peripheral devices.

 When a data string protocol that is required is not similar as one of the pre-configured outputs, the output data string must be *programmed manually* using the BUILD, TOKENS, AND WEIGHTS menus.

Follow these steps to customize the **Output Data String**.

25. While in the Weigh screen, press ALT + HOME on the external keyboard.

- 26. Press LOGIN.
- 27. Enter the Write Customer Password or Service Password.
- 28. Press the **LOGIN** button.
- 29. Select the Configuration Menu.
- 30. Press **PAGE FORWARD** once.
- 31. Select CONFIGURE OUTPUTS.
- 32. Select the correct **COM Port** to configure the output data string.

номе	ВАСК: НОМЕ	Configuration Menu
AUDIT TRAIL	Programmable Pron	npts
OPERATOR MENU	Entry Sequence Pr	ompts
CONFIGURATION MENU	Format Tickets	
SERVICE MENU	Pemote Display	
EXPANSION CARDS	Configure Outputs	
RETURN TO WEIGHING	Loopback Test	
	Vehicle Image Type	
	PAGE BACK	PAGE FORWARD

номе	BACK: CONFIGURATION MENU	Configure Outputs
AUDIT TRAIL	Edit RS485 ID	
OPERATOR MENU	IP Setup	
CONFIGURATION MENU	Configure COM1	
SERVICE MENU	Configure COM2	
EXPANSION CARDS	Configure COM3	
RETURN TO WEIGHING	Configure COM4	<u> </u>

33. Select	_OAD.
------------	-------

НОМЕ	BACK: CONFIGURE OUTPUTS	Configure COM1
AUDIT TRAIL	Settings	
	Load	8
CONFIGURATION MENU	Build	
SERVICE MENU	Tokens	
EXPANSION CARDS	Status Codes	
RETURN TO WEIGHING	Weights	



When configuring an output data string, the Fairbanks' FB2560 DAT has **seven (7)** commonly used pre-configured outputs.

34. Select the correct data string type.

HOME	BACK: CONFIGURE COM1	COM1 - Load
AUDIT TRAIL	Fairbanks	
	Toledo	
CONFIGURATION MEN	Cardinal	, i i i i i i i i i i i i i i i i i i i
SERVICE MENU	Weightronix	<u> </u>
EXPANSION CARDS	Condec	<mark>6</mark> 11
RETURN TO WEIGHING	DT7000 Anybus	
	SMA Protocol	<u> </u>

Displayed below are the data string protocols*.

Fairbanks <STX><A><C><GGGGGGS<<TTTTTT><CR>

Toledo <STX><A><C><GGGGGGG<<TTTTTT><CR>

Cardinal <CR><P><WWWWW><M><SP><U><SP><G><SP><SP><ETX>

Weightronix <><M><WWWWW><><U><CR><LF>

Condec <STX><SP><SP><WWWWW><U><G><M><CR><LF>

DT7000 Anybus

<STX><SW0><SW1><SW2><UD><GW><TW>NW><SP1><SP2><FR><UD><CRC><X CH>

SMA Protocol <LF> <S> <R> <N> <F> <XXXXXX.XXX> <UUU> <CR>

* See APPENDIX II: DATA OUTPUT for further information.

NOTE : Configure COM1 was selected in the following images.



35. Touch the **YES** button to load the default configuration for the data protocol selected.



НОМЕ	BACK: CONFIGURE OUTPUTS	Configure COM1	
AUDIT TRAIL	Fairbanks settings loaded into COM1		
OPERATOR MENU	Load		
CONFIGURATION MENU	Build		
SERVICE MENU	Tokens		
EXPANSION CARDS	Status Codes		
RETURN TO WEIGHING	Weights		

- номе COM1 - Build BACK: CONFIGURE COM1 AUDIT TRAIL Scale Data Type Value Status Byte A OPERATOR MENU <A> Status Byte B ONFIGURATION MENU Status Byte C <C> RETURN TO WEIGHING Gross Weight <G> Tare Weight <T> SAVE CHANGES ADD ROW
- HOME
 BACK: CONFIGURE COM1
 COM1 Build

 AUDIT TRAIL
 Scale:
 CANCEL

 OPERATOR MENU
 CANCEL

 CONFIGURATION MENU
 Scale ID 1
 Scale ID 1

 SERVICE MENU
 Scale ID 1

 EXPANSION CARDS
 FURN YO WEIGHING
 Scale ID 1
- **NOTE:** Selecting the **Scale** will limit the available data for configuring data strings.

A successful load of the selected data output will be indicated as shown.

36. The customization of the output begins upon selecting the **BUILD** menu choice.

37. Touch the screen under SCALE to

obtained.

select the scale where the data item is



38. Touch the screen under **DATA TYPE** to select a data item to edit.

There are many items available to select to edit the data item selected. Listed below are the available choices.

- **TEXT** Allows text entry values in the location.
- **UNITS TOKENS** Designates the unit of the data such as lbs or kgs.
- **MODE TOKENS** Designates if the weight is Gross, Tare, or Net.
- SCALE STATUS Designates the operating status of the scale such as motion, overcapacity, and behind zero.
- LOAD CELL STATUS Designates if a load cell has a potential problem.

HOME	BACK: CONFI	GURE COM1	COM1 - Build
AUDITTRAIL	Scale	Data Type	Value
OPERATOR MENU		Status Byte A	<a>
CONFIGURATION MENU		Status Byte B	<8>
RETURN TO WEIGHING		Status Byte C	<c></c>
		Gross Weight	<g></g>
		Tare Weight	<t></t>
	А	DD ROW	

НОМЕ	BACK: CONFIGURE COM1	COM1 - Build
AUDIT TRAIL	Data Type:	CANCEL
OPERATOR MENU	Text	Units Token
CONFIGURATION MENU	Mode Token	Scale Status
SERVICE MENU	Load Cell Status	Status Byte A
EXPANSION CARDS	Status Byte B	Status Byte C
RETURN TO WEIGHING	Gross Weight	Tare Weight
	Net Weight	Displayed Weight
	<< Remove >>	

- **STATUS BYTE A, B** or **C** Similar to Scale Status item but also includes graduation size, decimal point, and units.
- **GROSS WEIGHT, TARE WEIGHT, NET WEIGHT** –Weights retrieved from the scale selected for the data item configured.
- **DISPLAYED WEIGHT** Value which is currently shown on the display.
- <<REMOVE>> Removes the data item selected from the data string configuration.



- 39. Press the **ADD ROW** button to add additional data to the end of the string.
- 40. Touch the empty **DATA TYPE** box.
- 41. Select the data item required.
- 42. Select the Scale, if this data is required also.
- 43. Press the **SAVE CHANGES** button when any changes are made otherwise the changes will be lost.

Select **BACK: CONFIGURE COM1** to return to the Configure COM1 menu.

45. Touch the screen data box to the right of **POLL:** to select the available polling character for the demand mode.

44. Select the **TOKENS** menu.

HOME	BACK: CONF	GURE COM1	С	OM1 - Bu	ild
AUDIT TRAIL	Scale	Data Type		Value	
OPERATOR MENU		Status Byte A		<a>	
CONFIGURATION MENU		Status Byte B			
RETURN TO WEIGHING		Status Byte C		<c></c>	
		Gross Weight		<g></g>	
		Tare Weight		<t></t>	
	ADD ROW SAVE CHANGES				

HOME	BACK: CONFIGURE COM1		COM1 - Tokens
AUDIT TRAIL	Poll:	CR	
OPERATOR MENU	Start:	STX	
CONFIGURATION MENU	Stop:	CR	
RETURN TO WEIGHING	Block:	SPACE	
	Primary Units:	lb	
	Secondary Units:	kg	
	SAVE CHANGES		
			PAGE FORWARD

номе	BACK: CONFIGURE COM1	COM1 - Tokens
AUDIT TRAIL	Poll:	CANCEL
OPERATOR MENU	SPACE	
CONFIGURATION MENU	STX	
SERVICE MENU	ENQ	
EXPANSION CARDS	CR	
RETURN TO WEIGHING	User Defined	



46. Touch the screen data box to the right of **START:** to select the available start character for all modes.

НОМЕ	BACK: CONFIGURE COM1	COM1 - Tokens
AUDIT TRAIL	Start:	CANCEL
OPERATOR MENU	NONE	
CONFIGURATION MENU	SOH	
SERVICE MENU	STX	
EXPANSION CARDS	ENQ	
RETURN TO WEIGHING	CR	
	CRLF	
	User Defined	

- 47. Touch the screen data box to the right of **STOP:** to select the available stop character for all modes.
- 48. Touch the screen data box to the right of **BLOCK:** to select the available data block separator character for all modes.

Select **BACK: CONFIGURE COM1** to return to the **Configure COM1 menu**.

НОМЕ	BACK: CONFIGURE COM1	COM1 - Tokens
AUDIT TRAIL	Stop:	CANCEL
OPERATOR MENU	NONE	
CONFIGURATION MENU	ETX	
SERVICE MENU	EOT	
EXPANSION CARDS	CR	
RETURN TO WEIGHING	CRLF	
	User Defined	

НОМЕ	BACK: CONFIGURE COM1	COM1 - Tokens
AUDIT TRAIL	Block:	CANCEL
OPERATOR MENU	NONE	
CONFIGURATION MENU	SPACE	
SERVICE MENU	CR	
EXPANSION CARDS	LF	
RETURN TO WEIGHING	CRLF	
	User Defined	



- 49. Select the **PRIMARY UNITS:** data entry block which is located to the right of the legend.
- 50. Enter the primary units legend as shown in the image to the right.

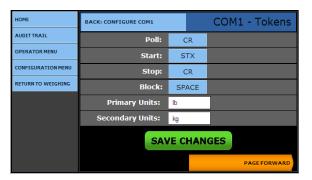
Example: Ib

- 51. Select the **SECONDARY UNITS**: data entry block which is located to the right of the legend.
- 52. Enter the secondary units legend, as shown in the image to the right.

Example: kg

53. Press **PAGE FORWARD** once.

- This page configures the **Status:** token for the output data string.
- Each item configured will indicate the character programmed in the output data string.
- If Motion: is present on the scale, a
 "M" will be transmitted in the data string. The Capacity: value will indicate if the scale is overloaded.
- Press the SAVE CHANGES button when any changes are made otherwise the changes will be lost.



НОМЕ	BACK: CONFIGURE COM1			COM1 - Tokens
AUDIT TRAIL	Poll:	(CR	
OPERATOR MENU	Start:	s	тх	
CONFIGURATION MENU	Stop:	(CR	
RETURN TO WEIGHING	Block:	SP	ACE	
	Primary Units:	lb		
	Secondary Units:	kg		
	SAVE CHANGES			
				PAGE FORWARD

НОМЕ	BACK: CONFIGURE COM1		COM1 - Tokens
AUDIT TRAIL		Sta	itus:
OPERATOR MENU	Motion:	М	
CONFIGURATION MENU	Capacity:	0	
SERVICE MENU	ок:		
EXPANSION CARDS	Invalid:	I.	
RETURN TO WEIGHING	SAVE CHANGES		
	РАБЕ ВАСК		PAGE FORWARD

NOTE: Set all **Threshold Weight** settings to **PRIMARY UNITS**, preventing any confusion when programming.



54. Press **PAGE FORWARD** again.

- This page configures the **Mode: token** for the output data string.
- Each item configured will indicate the character(s) programmed in the output data string.

The **REMOTE COMMANDS**:

НОМЕ	BACK: CONFIGURE COM1		COM1 - Tokens	
AUDIT TRAIL	Mode:			
OPERATOR MENU	Gross:	GR		
CONFIGURATION MENU	Tare:	TA		
SERVICE MENU	Net:	NT		
EXPANSION CARDS	Remote Commands:			
RETURN TO WEIGHING	Carriage Return			
	SAVE CHANGES			
	PAGE BACK			

configuration establishes if a carriage return is required when sending a remote command, such as a **Zero Command**.

- If the check box is selected, the remote Zero Command is ZERO<CR>. Otherwise it would be a "ZERO" only.
- 55. Select **RETURN TO WEIGHING TO TEST** and verify the output is producing the desired results.
- Press the **SAVE CHANGES** button when any changes are made.; Otherwise, the changes will be lost.

Selecting **BACK: CONFIGURE COM1** will return the user to the Configure COM1 Menu.

 Touch RETURN TO WEIGHING TO TEST and verify the output is producing the desired results.



4.5. Report Printer Configuration

The steps listed below configure the report printer connected to the FB2560 DAT.

- 1. Using an external keyboard, press **ALT + HOME**.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select the **CONFIGURATION MENU**.
- 5. Press **PAGE FORWARD** twice.
- 6. Select **REPORT PRINTER**.
- 7. Press the blue data box to the right of **REPORT PRINTER:**
- 8. Select the correct report printer used from the menu list.
- 9. Press the **SAVE CHANGES** button when any changes are made otherwise the changes will be lost.

HOME	ВАСК: НОМЕ	Configuration Menu	
AUDIT TRAIL	Traffic Light Contro	bl	
OPERATOR MENU	Configuration Option	ons	
CONFIGURATION MENU	Video Camera Inpu	ıts	
RETURN TO WEIGHING	Network Parameters		
•	Printer Spoeler		
	Report Printer		
-			
	РАБЕ ВАСК		

НОМЕ	BACK: CONFIGURATION MENU		Report Printer
AUDITTRAIL	Report Printer: ML420		
OPERATOR MENU			
CONFIGURATION MENU	SA	/E CHA	NGES
RETURN TO WEIGHING			

 Select BACK: CONFIGURATION MENU to return to the Configuration Menu.

HOME	BACK: CONFIGURATION MENU	Report Printer
AUDIT TRAIL	Report Printer:	CANCEL
OPERATOR MENU	NONE	
CONFIGURATION MENU	HP P2055d	
RETURN TO WEIGHING	ML420	



4.6. IP Output Configuration

The IP Output is available using the Ethernet connection of the FB2560 DAT

- Follow these sections to configure the Communication Data String Protocol.
- The **MODE** selection configures the Network (Continuous) or Network (Auto).
- The final step of the IP Configuration is assigning the communication parameters for the device on the Network.
- 1. Using an external keyboard, press **ALT + HOME**.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Open the **CONFIGURATION MENU.**
- 5. Press **PAGE FORWARD** once.
- 6. Select **CONFIGURE OUTPUTS.**
- 7. Touch the screen to select **IP SETUP**, which configures the FB2560 DAT.

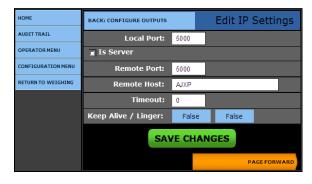
номе	ВАСК: НОМЕ		Configuration Menu
AUDIT TRAIL	Programmable Prompts		
OPERATOR MENU	Entry Sequence Pr	ompts	
CONFIGURATION MENU	Format Tickets		
RETURN TO WEIGHING	Remote Display		
	Configure Outputs		
	Vehicle Image Type		
	PAGE BACK		PAGE FORWARD

НОМЕ	BACK: CONFIGURATION MENU	Configure Outputs
AUDIT TRAIL	Edit RS485 ID	
	IP Setup	
CONFIGURATION MEN	Contigure COM1	
RETURN TO WEIGHING	Configure COM2	
	Configure COM3	
	Configure COM4	



4.6. IP Output Configuration, Continued

- 8. The **IP SETUP** configuration screen has several parameters to program.
 - The Local Port: can be a random number which is assigned to the FB2560 DAT.
 - Port numbers are values from 0 to 65535.
 - Ports 0 to 1024 are reserved for certain privileged services.



- The combination of port number and IP address is called a socket.
- The Local Port: and Remote Port: values should match.

✓ DEFAULT = 5001

- The **Remote Port:** looks for information to forward to the **Remote Host:** (remote device name) application.
- The **Timeout:** function is to stop communications when it is inactive.
- The **Keep Alive / Linger** settings will act as a means to keep the connections active even when activity is limited.

9. Press PAGE FORWARD.

 The settings shown assist with Networks which have active firewalls, and permit the IP communications to continue operating, instead of becoming blocked by the networks firewall settings.

НОМЕ	BACK: CONFIGURE OUTPUTS		E	Edit IP	Setti	ings
AUDIT TRAIL	Firewall Host:					
OPERATOR MENU	Firewall Port:	0				
CONFIGURATION MENU	Firewall Type:	No Fir	ewall			
RETURN TO WEIGHING	Firewall User:					
	Firewall Password:					
	SAV	е сн	ANG	ES		
	PAGE BACK					

- 10. Press the **SAVE CHANGES** button when any changes are made otherwise the changes will be lost.
- Select **BACK: CONFIGURATION MENU** to return to the **Configuration Menu**.



4.7. RS-485 Configuration

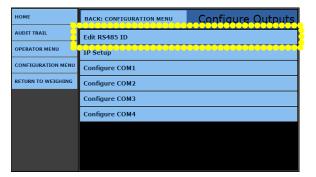
The RS-485 output is available from the **RS-485 accessory** (**30937**), or from the **Serial Expansion accessory** (**30921**).

- Refer to <u>Section 4.4.3. Method 1 Pre-configured Output</u> or Section <u>4.4.4.</u> <u>Method 2. – Customizing Output Data Strings</u>.
- These sections describe how to configure the data string protocol for the communications.
- The final step for the RS-485 configuration is to assign an ID for the RS-485 communications network.
- This address is a requirement for proper operation.

Follow these steps to configure the **RS-485 ID**.

- 1. Using an external keyboard, press ALT + HOME. Select LOGIN.
- 2. Enter the Supervisor Password.
- 3. Select the CONFIGURATION MENU
- 4. Press **PAGE FORWARD** once.
- 5. Select CONFIGURE OUTPUTS.
- 6. Touch the screen to select **Edit RS-485 ID** to edit or enter the **RS-485 ID**.
- 7. Touch the screen to the right of **RS-485 ID** to enter the RS-485 ID from the keyboard.
 - The ID value may be configured from 1 to 32.
 - A ZERO (0) disables the ID.
- Press the SAVE CHANGES button when any changes are made, otherwise they will be lost.
 - Select Back: CONFIGURATION MENU to return to the Configuration Menu.

НОМЕ	ВАСК: НОМЕ	Configuration Menu				
AUDIT TRAIL	Programmable Pron	Programmable Prompts				
OPERATOR MENU	Entry Sequence Pr	rompts				
CONFIGURATION MENU	Format Tickets	Format Tickets				
RETURN TO WEIGHING	Remete Picplay					
8	Configure Outputs					
	Loopback Test					
	Vehicle Image Type	Vehicle Image Type				
	PAGE BACK	PAGE FORWARD				







4.8. Network Parameters Configuration

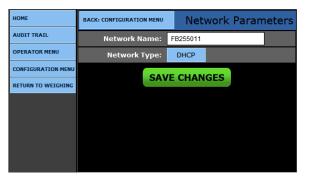
The **Network Name** is a unique identifier of the instrument as it appears on the Network to which it connects.

- Configure the **NETWORK TYPE** as a Static or Fixed IP, and either DHCP or Dynamic IP Addresses.
- The **IP ADDRESS** and **SUBNET MASK** are unique address values designed to function within the Network for which it is configured.
- IP Address is an identifier for a computer or device on a TCP/IP Network. Networks using the TCP/IP Protocol route messages based on the IP Address of the destination.

A **SUBNET MASK** is a local division of a **Local Area Network (LAN),** which is created to improve performance and provide Network security.

- 1. Using an external keyboard, press **ALT + HOME**.
- 2. Select LOGIN.
- 3. Open the **CONFIGURATION MENU**.
- 4. Press **PAGE FORWARD** twice.
- 5. Select the **NETWORK PARAMETERS** option.
- 6. Click the **NETWORK TYPES** button.
- 7. Select either **STATIC IP** or **DHCP**.

НОМЕ	BACK: HOME	(Configuration Menu			
AUDIT TRAIL	Threshold Weigh	Threshold Weights				
OPERATOR MENU	Traffic Light Con	trol				
CONFIGURATION MENU	Configuration Op	tions				
RETURN TO WEIGHING	Video Camera In	Video Camera Trouts				
	Network Parameters					
5	Printer Spooler					
	Report Printer					
	PAGE BACK		PAGE FORWARD			



- If **cable is connected** upon initial Power Up and Configuration, the Network type selection will default to **DHCP**.
- If there is **no cable**, then the Network type will default to **STATIC**.



4.8. Network Parameters Configuration, Continued

8. If STATIC IP is selected, enter the correct IP ADDRESS, SUBNET MASK, DEFAULT GATEWAY and DNS SERVER ADDRESSES.

HOME	BACK: CONFIGURATION MENU	Network Parameters
AUDIT TRAIL	Network Ty	pe: CANCEL
OPERATOR MENU	Static IP	
CONFIGURATION MENU	DHCP	
SERVICE MENU		
EXPANSION CARDS		
RETURN TO WEIGHING		

9. Press **SAVE CHANGES** so the changes will not be lost.

HOME	BACK: CONFIGURATION MENU	, N	letwor	rk Par	ameters
AUDIT TRAIL	Network Name:	FB255	0		
OPERATOR MENU	Network Type:	Statio	: IP		
CONFIGURATION MENU	IP Address	192	168	1	1
SERVICE MENU	Subnet Mask:	255	255	255	0
EXPANSION CARDS	Default Gateway:	192	168	2	2
RETURN TO WEIGHING	DMS Server:	0	0	0	0
	SAVE CHANGES				

Section 5: Input/Output

5.1. Installing a Printer

The FB2560 DAT instrument has **three (3) standard Serial Output Ports** which are configured for RS-232 communications.

- Additional serial outputs such as **RS-232**, **20mA**, and **RS-485** are available as optional accessories.
- Printers Include **TM-U220** (Tape Printer), **TL80** Custom America (Thermal Printer).

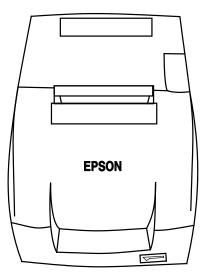
Serial outputs can be customized to provide specific configured data string protocols, configuration parameters, using selected output modes, such as **Continuous**, **Demand, Auto, Network (Continuous)**, and **Network (Auto**).

- The FB2560 DAT also can connect using a Network for remote configuration and diagnostics capability.
- The FB2560 DAT uses Serial Cable (25932) and USB Cable (29827C).

5.1.1. TM-U220 Tape Printer Settings

- Uses **SERIAL** communication.
- Necessary cable used is **25932**.

BAUD	9600
PARITY	No
DATA BITS	8
STOP BIT	1





5.1.1. TM-U220 Tape Printer Settings, Continued

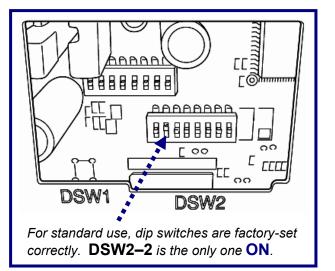
DIP SWITCH 1 (Serial Interface)

SWITCH	FUNCTION	ON	OFF
1	Data receive error	Ignored	Prints "?"
2	Receive buffer capacity	40 byes	4KB
3	Handshaking	XON/XOFF	DTR/DSR
4	Work length	7 bits	8 bits
5	Parity check	Yes	No
6	Parity selection	Even	Odd
7	Transmission speed	4800 bps	9600 bps
8	BUSY condition	Receive buffer full	Receive buffer full or Offline

DIP SWITCH 2 (Serial Interface)

SWITCH	FUNCTION	ON	OFF
1	Print Column	42/35	40/33
2	For internal use only (auto-cutter) (do not change)	Enabled	Disabled
3	Pin 6 reset signal	Used	Not used
4	Pin 25 reset signal	Used	Not used
5	Undefined		
6	Internal use only (flash memory rewriting) (Do not change)	Enabled	Disabled
7	Undefined		
8	Serial Interface section	Memory Switch	Dip Switch

Access the **Dip Switches** by unfastening the screw and removing the cover plate, found on the bottom of the printer.





5.1.1. TM-U220 Tape Printer Settings, Continued

Cable 25932 Wiring for COM 1-3

DB-9 INSTRUMENT	DESCRIPTION	WIRE COLOR	DB-25 PRINTER	DESCRIPTION
2	RxD	BR	2	TxD
3	TxD	R	3	RxD
4	DRT	0	6	DSR
5	SG	Y	7	SG
6	DSR	G	20	DTR
7	RTS	BL	5	CTS
8	CTS	BK	4	RTS

Cable 25932 Wiring for Serial Expansion Module*

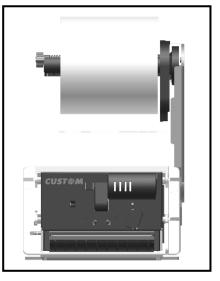
RS232 PORT 1: COM7 XX	DESCRIPTION	WIRE COLOR	DB-25 PRINTER	DESCRIPTION
TB1 a- 2	RxD	BR	2	TxD
TB1 a -3	TxD	R	3	RxD
TB1 a -4	DRT	0	6	DSR
TB1 a- 5	SG	Y	7	SG
TB1 b -6	DSR	G	20	DTR
TB1 b- 7	RTS	BL	5	CTS
TB1 b -8	CTS	BK	4	RTS

* Must remove the 9-pin connector.



5.1.2. TL80 Custom America Thermal Printer Settings

The TL80 Customer America is a kiosk printer, placed inside the FB2560 Instrument.



- Uses **USB** communication (recommended)
- Necessary cable used is **29827C**.
- No dip switches are used on the **TL80** Thermal Printer
- It is recommended that Enhanced Print be used with TL80 tickets. See <u>Format Tickets</u> for more information.

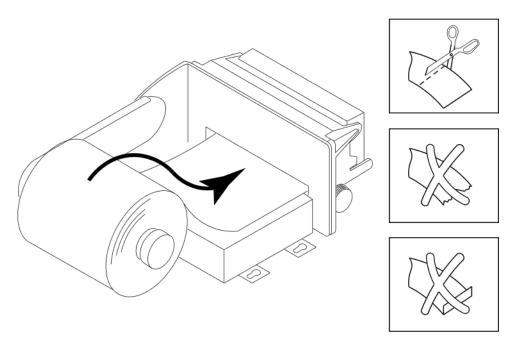
NOTE: The COM port on the TL80 printer is **NOT** recommended for Serial communications at this time.

5.1.3. Replacing the Paper Roll

- 1. Place the paper roll onto the paper roll holder support so the paper roll will unroll clockwise.
- 2. If necessary, cut the paper roll with scissors so the cut end is straight.
- 3. Insert the paper into the paper infeed opening so that it unrolls in the direction shown in the figure.
- 4. Wait for the paper to load automatically.

IMPORTANT: Before inserting the paper, make sure the cut is straight. See below.





5.2. Programming the Printer

The steps listed below will provide the process to configure the printers which will be connected to the FB2560 DAT.

- 1. Using an external keyboard, press **ALT + HOME**.
- 2. Press LOGIN.
- 3. Enter the Supervisor Password.

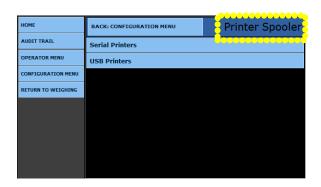


- 4. Select the **CONFIGURATION MENU**.
- 5. **PAGE FORWARD** twice.
- 6. Select **PRINTER SPOOLER**.

HOME	BACK: HOME	Configuration Menu			
AUDIT TRAIL	Threshold Weights				
OPERATOR MENU	Traffic Light Con	trol			
CONFIGURATION MENU	Configuration Op	Configuration Options			
RETURN TO WEIGHING	Video Camera Inputs				
_	Network Parameters				
8	Printer Spooler				
<mark>.</mark>	174473777777777777777777777777777777777				
	PAGE BACK	PAGE FORWARD			



7. Select either SERIAL PRINTERS or USB PRINTERS.



			<u>,</u>	
НОМЕ	BACK: SERIAL PRINTERS		COM 2 Printer	
AUDIT TRAIL	Printer:			
OPERATOR MENU	NONE	IDP3	550	
CONFIGURATION MENU	ТМ-U590	TM-U295		
RETURN TO WEIGHING	SP298	SP700		
	SP-2000	SP-22	200	
	TM-U230	ML42	0	
	EU-T432			

HOME	BACK: PRINTER SPOOLER	USB Printers
AUDIT TRAIL	Printer ML420	
OPERATOR MENU	Printer HP P2055d	
CONFIGURATION MENU	Printer HP M401n	
RETURN TO WEIGHING		

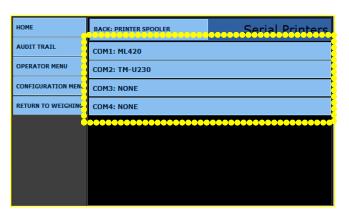
8. Select the correct printer from the list.

CONNECTION TYPE	PRINTER	
USB Only	• ML420	• HP P2055d
	• HP M401n	• TL80
Serial	None	• iDP3550
	• TM-U590	• TM-U295
	• SP298	• SP700
	• SP-2000	• SP-2200
	• TM-U230	• ML420
	• EU-EU-T432	



5.2. Programming the Printer, Continued

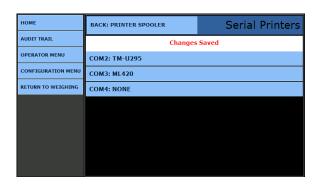
9. Select the correct **COM PORT** for the printer.

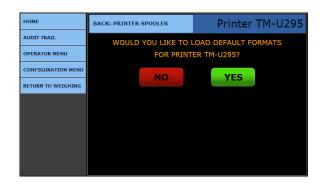


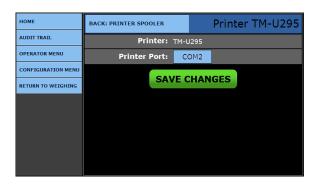
10. Set the data protocol for the COM Port, including the **PRINTER, BAUD RATE, PARITY, DATA BITS** and **STOP BITS**.

HOME	BACK: SERIAL PRINTERS		COM4 Printer
AUDIT TRAIL	Serial Port: COM4		
OPERATOR MENU	Printer:	SP-2200	
CONFIGURATION MENU	Baud:	2400	
RETURN TO WEIGHING	Parity:	None	
	Data Bits:	7	
	Stop Bits:	2	
	SAV	/E CHAN	IGES

The FB2560 DAT will indicate the port has been set and the defaults loaded.









- 11. If this is the first time the printer is installed on the Indicator, load the **PRINTER DEFAULT FORMATS** by pressing the **YES** button.
- 12. Press the **SAVE CHANGES** button on the touch screen display to complete the Printer configuration.
 - Select **BACK: CONFIGURATION MENU** to return to the **Configuration Menu**.

13. Connect the printer cable to the printer and the configured COM port.

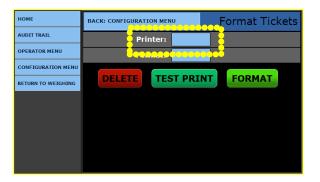


5.3. Format Tickets

The steps listed below will provide the process to format the tickets for the printers which were configured in <u>SECTION 4.5. REPORT PRINTER</u> <u>CONFIGURATION</u>.

- 1. Using an external keyboard, press ALT + HOME.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select the **CONFIGURATION MENU** and press **PAGE FORWARD** once.
- 5. Select FORMAT TICKETS.
- 6. Touch the data entry box to the right of **PRINTER**.

НОМЕ	ВАСК: НОМЕ	Configuration Menu		
AUDIT TRAIL	Programmable Pron	Programmable Prompts		
OPERATOR MENU	00000000000			
	Format Tickets			
RETURN TO WEIGHING	Kentle Deplay 000000000000000000000000000000000000			
	Configure Outputs			
	Loopback Test			
	Vehicle Image Type	Vehicle Image Type		
	PAGE BACK	PAGE FORWARD		



7. Double-click the correct printer from the menu list.

НОМЕ	BACK: CONFIGURATION MENU	Format Tickets
AUDIT TRAIL	Printer:	CANCEL
OPERATOR MENU	COM1: TM-U295	
CONFIGURATION MENU	COM2: TM-U590	
RETURN TO WEIGHING	COM3: iDP3550	
	COM4: SP-2200	
	USB ML420	

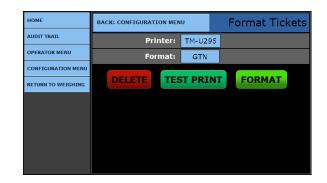
НОМЕ	BACK: CONFIGURATION MENU	Format Tickets
AUDIT TRAIL	Format:	CANCEL
OPERATOR MENU	GTN	
CONFIGURATION MENU	Inbound	
RETURN TO WEIGHING	Outbound	

8. Select the ticket format to edit or configure.



5.3. Format Tickets, Continued

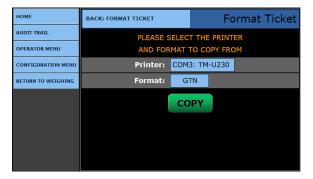
9. Press the **FORMAT** button to access the format item menu.



- 10. The **Format Tickets menu** has **nineteen** (19) windows of configurable data windows for each printers ticket format.
 - This first window configures the **Ticket** Length and **Ticket Width**.
 - The **Easy Format Wt Flds** combines the weight amount, units of weight, and legend (weight mode) so each of these fields will be automatically inserted throughout the processing of generating the ticket.

номе	BACK: FORMAT TICKETS			TM-U	295 / G	ΓN	
AUDIT TRAIL	Ticket	Length:	7				
OPERATOR MENU	Ticket	Width:	3.5				
CONFIGURATION MENU	Easy Format V	Vt Flds:	Y	ES			
RETURN TO WEIGHING	In	verted:	1	NO			
	СОРҮ	DELE	TE	S	AVE CH	ANGES	
						PAGE FORWA	RD

- This prevents needing to input each of these items separately.
- The Inverted feature prints the ticket from bottom first, up to the top.
- 11. Press the **PAGE FORWARD** button to advance to the next page of ticket options.
 - Press the SAVE CHANGES button when any changes are made otherwise the changes will be lost.
 - Press the COPY button to copies this ticket format, then posts it to another printer's selected ticket format.



NOTE: Formatting all the parameter windows will determine how the standard company ticket prints and displays in the Weight Screen.



5.3. Format Tickets, Continued

The **DELETE** button function eliminates the ticket format.

• A prompt appears to confirm the operation.

The formatting pages are displayed in three (3) distinctive types.

DATA FIELD – This field is identified by the **Field:** entry value shown. Data which is within greater than and less than symbols is data derived from the FB2560 DAT and the vehicle which is being weighed.

Example: <Gross WT>

• This is the actual weight value which was weighed on the scale.

LABEL FIELD – This field is identified by the **Field:** entry value shown. Data which is text only is a label data field. This field will describe the data field that it is beside.

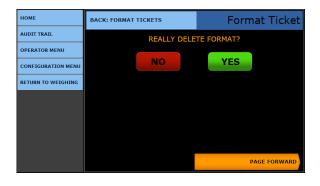
Example:

GR. This label describes the weight as a Gross weight value.

TEXT FIELD – This field is identified by the **Field:** entry value shown. This Data is custom text entered to provide required information on the ticket.

Example:	
Driver:	

• This gives driver a place to sign a ticket.



НОМЕ	BACK: FORMAT TICKET	Ed	lit <gr< th=""><th>OSS WT></th></gr<>	OSS WT>
AUDIT TRAIL				
OPERATOR MENU	Field:	<gross th="" v<=""><th>VT></th><th></th></gross>	VT>	
CONFIGURATION MENU	Top / Left:	3.0	0.7	
RETURN TO WEIGHING	Height / Width:	0.1	0.6	
	Enhanced:	YES		
	Printed:	YES		
	SAV	E CHAN	IGES	

НОМЕ	BACK: FORMAT TICKET	Ec	lit GRO	SS LABEL
AUDIT TRAIL	TM	1-U295 / C	GTN	
OPERATOR MENU	Field:	GROSS LA	BEL	
CONFIGURATION MENU	Top / Left:	3.0	2.0	
RETURN TO WEIGHING	Height / Width:	0.1	0.5	
	Enhanced:	YES		
	Printed:	YES		
	SAV	E CHAN	IGES	
		L official	GLO	

НОМЕ	BACK: FORMAT TICKET		TM-U2	295 / GTN
AUDITTRAIL	ТМ	TM-U295 / GTN		
OPERATOR MENU	Field:	TEXT1		
CONFIGURATION MENU	Caption:	Driver:		
RETURN TO WEIGHING	Top / Left:	0.0	0.0	
	Height / Width:	0.0	0.0	
	Enhanced:	NO		
	Printed:	NO		
	SAVE CHANGES			



5.3. Format Tickets, Continued

- TOP / LEFT: Plots the x-y coordinates of where the fields are located.
 - **TOP** field moves the data field in an **up and down** position.
 - This value is incremented in **tenths (0.1) of an** *inch*.
 - **LEFT** field moves the data field in a left to right direction.



- This value is incremented in tenths (0.1) of an inch.
- **HEIGHT / WIDTH:** These two fields establish the font size of the data which has been selected. Care should be taken when changing these data fields. The characters can be distorted if the ratios of the default settings are not maintained.

DEFAULT – HEIGHT / WIDTH: 0.1 0.6 CHANGE TO HEIGHT / WIDTH: 1.1 1.6.

- **ENHANCED:** Touch the data entry box on the screen to the right of **Enhanced:** and select Yes or No to enable or disable the emphasized print.
- **PRINTED:** Touch the data entry box on the screen to the right of **Printed:** and select Yes or No to enable or disable the printing of the data item.

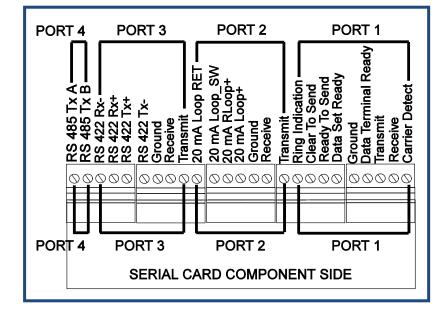
NOTE: Use **Enhanced Print** on all ticket items printed on a TL80 printer.

- Press the SAVE CHANGES button when any changes are made otherwise the changes will be lost.
- Selecting BACK: FORMAT TICKET returns to the Format Ticket.





5.4. Serial Card



The **SERIAL CARD** (30921) provides four (4) outputs with a maximum of two (2) cards per Instrument. See the Port Assignments listed below.

 A bus cable is provided to connect the multi-function board to the expansion card.

PORT 1	RS-232 (Full Duplex 9 Pin Port)
PORT 2	RS-232 OR 20mA*
PORT 3	RS-232 OR RS-422 *
PORT 4	RS-485

* Only one (1) may be selected at a time, and not both.



5.5. Remote Display Setup and Configuration

The FB2560 DAT has two modes of operation.

- Continuous Display.
- Display On Print.

The remote display output may be configured for a RS232 interface or a 20mA interface.

5.5.1. Serial 20mA Configuration (Multi-Function Board)

The following steps listed will provide the process to configure the FB2560 DAT for use with the serial 20mA to a remote display.

- 1. Using an external keyboard, press **ALT + HOME**.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select the **CONFIGURATION MENU**.
- 5. Press **PAGE FORWARD**.
- 6. Select **REMOTE DISPLAY**.



номе	ВАСК: НОМЕ	C	Configuration Menu	
AUDIT TRAIL	Programmable Pron	Programmable Prompts		
OPERATOR MENU	Entry Sequence Pro	ompts		
CONFIGURATION MENU	Format Tickets			
RETURN TO WEIGHIN	Remote Display			
Č.	Configure Outputs			
	Loopback Test			
	Vehicle Image Type			
	PAGE BACK		PAGE FORWARD	

7. Leave the settings as shown in the image to the right.

номе	BACK: CONFIGURATION MENU			Remot	e Display
AUDIT TRAIL	COM Port:	OFF			
OPERATOR MENU	Display Mode:	Contin	uou	s Display	
CONFIGURATION MENU	Output Type:	Gross	Wt		
RETURN TO WEIGHING	Output Scale:	Active	Sca	le	
	Baud:	2400	1		
	Parity:	None			
	SAV	/E CH/	٩N	GES	
					PAGE FORWARD



5.5.1. Serial 20mA Configuration (Multi-Function Board), Continued

- 8. Press **PAGE FORWARD** once.
- 9. Click on the ENABLE 20mA OUTPUT button.
 - Programs the 20mA Output located at J1, which resides on the Multi-Function Board.

НОМЕ	BACK: CONFIGURATION MENU			Remote Display
AUDIT TRAIL	Data Bits:	8		
OPERATOR MENU	Stop Bits:	1		
CONFIGURATION MENU	Enabled 1605T Ren Control	ote Dis	spla	y Traffic Light
RETURN TO WEIGHING			ud 7 000 1)	
	20 IIIA Output.	(2400	Dau	id, 7, 000, 1)
	SAV	E CH	AN	GES
	PAGE BACK			

номе	BACK: CONFIGURATION MENU	Remote Display
AUDIT TRAIL	20 mA Output:	CANCEL
OPERATOR MENU	OFF	
CONFIGURATION MENU	(1200 Baud, 7, ODD, 1)	
RETURN TO WEIGHING	(2400 Baud, 7, ODD, 1)	
	(4800 Baud, 7, ODD, 1)	

NOTE: See <u>SECTION 6.2. Programming the Traffic Light Control</u> for other configuration parameters which must be enabled for proper traffic light operation.

- Use a **20mA CURRENT LOOP CONNECTION** for the Remote Display.
- LED Designations are displayed below.
 - DS4 is +12V DS1 is +3.3V (f)88888 J7 JI4 JZ 日中中日日 Jumpe Typical Connections – Active (Multi-Function Board) 78 🖁 605 / 1605T TB1 oop Return 司用唐 æ
- DS3 is +5V

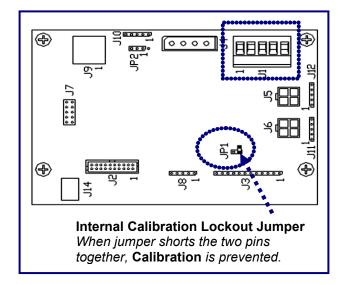


5.5.2. Multi-Function Board 20mA Wiring

The **Multi-function Board (29907)** processes the Keypad and Touch Screen Input.

- One USB Port is dedicated to the Auxiliary Keyboard.

J1	DESCRIPTION
	PASSIVE LOOP
1	LOOP+ (External Resistor)
2	RLOOP+
3	LOOP_SW
	ACTIVE LOOP
3	LOOP_SW
5	LOOP_RET



A. Typical Connections – Passive (Multi-Function Board)

J1	Description	1605 / 1605T TB1	Description
2	RLoop+	1	+ 15 vdc
3	Loop_SW	7	C-Loop +
		2	GND
		Jumper	C-Loop -
		8	

B. Typical Connections – Active (Multi-Function Board)

J1	Description	1605 / 1605T TB1	Description
3	Loop_SW	7	C-Loop +
5	Loop Return	8	C-Loop -



5.5.3. Serial 20mA Configuration (Serial Expansion Board)

- Using an external keyboard, press ALT + HOME. Select LOGIN.
- 2. Enter the Supervisor Password.
- 3. Select the **CONFIGURATION MENU**.
- 4. Press PAGE FORWARD once.
- 5. Select **REMOTE DISPLAY**.
- Touch the data box on the screen to the right of COM PORT, selecting the desired COM port.
- 7. Select the **DISPLAY MODE** button, selecting the desired mode required from the menu list.
 - The menu choices are Continuous Display or Display on Print.
- 8. Touch the data box on the screen to the right of **OUTPUT TYPE**, then select the desired type required from the menu list.
 - The types are Gross Wt, Net Wt, or Ticket Number.
- 9. Touch the data box on the screen to the right of **OUTPUT SCALE**, then select the desired scale required from the menu list.
 - The scales choices are All, Active or an individual scale.
 - It is recommended to leave the settings for baud, parity, as shown in the above image.

Do Not touch the data check box on the screen to the left of **Enable 20mA Output.**

- This turns on the 20mA output located at J1, which resides on the Multi-Function Board.
- This is not required for this Configuration Setup.
- If the check box is selected by Enabled 1605T Remote Display Traffic Light Control, the FB2560 DAT will control the traffic light function.



НОМЕ	ВАСК: НОМЕ	Configuration Menu	
AUDIT TRAIL	Programmable Prompts		
OPERATOR MENU	Entry Sequence Pr	rompts	
CONFIGURATION MENU			
RETURN TO WEIGHING	Remote Display		
	Configure Outputs 1000000000000000000000000000000000000		
	Loopback Test		
	Vehicle Image Type		
	PAGE BACK PAGE FORWARD		

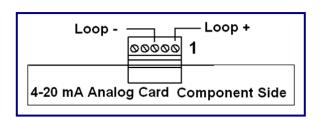
НОМЕ	BACK: CONFIGURATION MENU		Remote Display
AUDITTRAIL		007500	000000
OPERATOR MENU	Display Mode:	Continuo	
CONFIGURATION MENU	Output Type:	Gross Wt	000000
RETURN TO WEIGHING	Output Scale:	Active Sca	ale
	Baud:	2400	
	Parity:	None	
	SAV	E CHAN	GES
			PAGE FORWARD

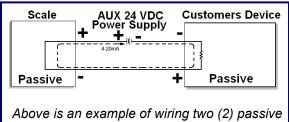


5.6. 20mA Analog Card

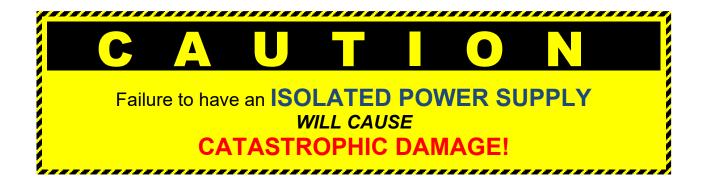
The **4-20mA ANALOG CARD (30919)** is a **Passive Current Loop Device** with **16 Bit High Resolution Output.**

4-20mA Specifications	 – 16 bit resolution +/01 integral linearity
Current Loop Voltage Compliance	 A PASSIVE DEVICE, as the 4-20 Analog Card is, does not supply any current loop voltage. Customer's external source must furnish 7 to 40 VDC power (typical voltage 24 VDC). The negative (-) power of the supply <i>MUST</i> be isolated from chassis ground See important CAUTION box below. A separate power supply must be furnished for each output.
Full Scale Setting Time	– 8 msecs.
Output Impedance	– 25 Meg Ohms.
Alarm Current	 - 3.5 to 24mA (underload/overload conditions), Offset at 25°C; +/1% of full scale. Offset drift; +/- 25 ppm of full scale per degree Celsius.
Total Output Error	 (20mA) at 25°C: +/2% of full scale max.
Total Output Drift	 +/- 50 ppm of full scale per degree Celsius max.





Above is an example of wiring two (2) passive nodes with an external power supply.





5.7. Fieldbus Connections

The term **FIELDBUS** usually describes an all-digital two-way communications system that interconnects measurement and control equipment such as sensors, actuators and controllers.

• Fieldbus traces its beginnings in the automotive industry, where efforts to simplify and reduce wiring resulted in a multiplexed CAN (Controller Area Network) system of modules installed at various points of a vehicle.

WORKING EXAMPLE:

Most cars have multiple controls on the door panel, such as power-window, powermirror, power-lock and power-seat controls. A **Fieldbus Network** combines all the switch wires into a two wire communication bus. Pressing a switch closes a relay that provides power to the window motor, sending a packet of data onto the communication bus to adjust the passenger-side mirror.

5.7.1. Overview of Terms

There are currently **four (4) different types of Fieldbus Interfaces** listed as standard accessories for the FB2560 DAT.

DeviceNet – A network system to interconnect control devices for data exchange.

 It uses a differential serial bus, called Controller Area Network (CAN), as the backbone technology and defines an application layer to cover a range of device profiles.



Typical Fieldbus Card installation.

ControlNet – An open Control Network in real-time, for high-throughput applications.

Modbus-TCP– Serial network communications in a master/slave (request/response) type relationship using either ASCII or RTU (Remote Terminal Unit) modes.

• Non-powered two-wire (RS-485) network, with **up to 126 nodes**, transferring a maximum of 244 data bytes per node per cycle.



5.7.2. DeviceNet

DeviceNet (30923) is a low-cost communications link that connects industrial devices to a network, eliminating expensive hardwiring.

DeviceNet also provides power to the network. This allows devices with limited power requirements to be powered directly from the network.

- This reduces connection points and physical size.
- The maximum network size is **up to 64 Nodes**, with message data packets **up to 8 bytes.**

WIRE	SIGNAL	DESCRIPTION	
1	V	Negative bus supply voltage	
2	CAN_L	CAN low bus line	
3	SHIELD	Cable shield	
4	CAN_H	CAN high bus line	
5	V+	Positive bus supply voltage	

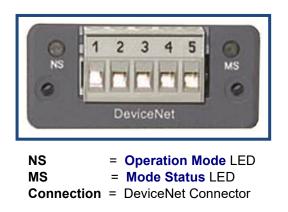




5.7.2. DeviceNet, Continued

NETWORK STATUS LED

STATE	INDICATION
OFF	Not online/ No power
GREEN	Online, one or more connection established
FLASHING GREEN (1 Hz)	Online, no corrections established
Red	Critical link failure
Flashing Red (1 Hz)	One or more connections timed out
Alternating Red/Green	Self-test



MODULE STATUS LED

STATE	INDICATION
OFF	No power
GREEN	Operating in normal condition
FLASHING GREEN (1 Hz)	Missing/Incomplete configuration/ Device needs comminssioning
Red	Unrecovrerable fault(s)
Flashing Red (1 Hz)	Recoverale fault(s)
Alternating Red/Green	Self-test



5.7.3. ControlNet

ControlNet (**30924**) is an open ControlNetwork running in "real-time", for highthroughput applications.

- It uses a Control and Information Protocol (CIP), combining the functionality of an I/O Network and a Peer-to-Peer Network.
- **ControlNet** is based on the **Producer/Consumer Model**, permitting all nodes on the network to simultaneously access the same data from a single source.
- Maximum of **99 nodes**, with no minimum distance between nodes
- The ControlNet card uses BNC connectors.





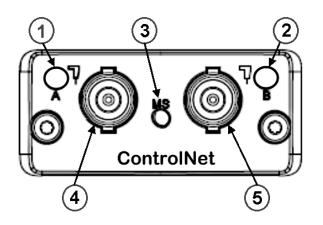
SPECIAL NOTES

For **signal redundancy**, both connectors should be used.

• If not, use either Connector A or B.

Network Status LED A and **Module Status LED** correspond to **LED 1** and **LED 2** in the instance attributes of the **Anybus Object**.

• They are available in the application interface, but the LED placement on the front does not conform to the standard **Anybus CompactCom** placement of **LED 1** and **LED 2**.





5.7.3. ControlNet, Continued

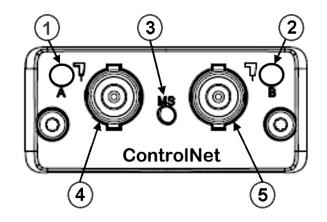
NETWORK STATUS

LED	STATE	INDICATION
A and B	OFF	Not online / No power
	Flashing Red (1 Hz)	Incorrect node configuration, duplicate MAC ID etc.
	Alternating Red/Green	Self test of bus controller
	Red	Fatal event or faulty unit
A or B	OFF	Channel is disabled
	Alternating Red/Green	Invalid link configuration
	Flashing Green (1 Hz)	Temporary errors (node self-corrects) or node is not configured to go online.
	Green	Normal operation
	Flashing Red (1 Hz)	Media fault or no other nodes on the Network

MODULE STATUS

STATE	INDICATION
OFF	No power
GREEN	Operating in normal condition, controlled by a Scanner in RUN state.
FLASHING GREEN (1 Hz)	The module has not been configured or the Scanner is in the Idle state.
Red	Unrecovrerable fault(s), EXCEPTION,
Flashing Red (1 Hz)	Media fault or no other nodes on the Network

NO.	DESCRIPTION
1	Network Status LED A
2	Module Status LED
3	Network Status LED B
4	ControlNet Connector A
5	ControlNet Connector B

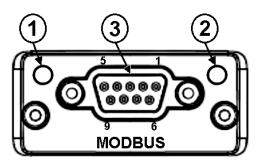




5.7.4. MODBUS-TCP

Modbus-TCP (30925) PROTOCOL was originally developed in 1978 to exchange information between devices on the factory floor.

- It developed into the standard for exchanging data and communication **MODULE STATUS** information between PLC systems.
- Modbus-TCP devices communicate over a **Serial Network** in a **master/slave** (request/response) type relationship.
- Uses either the **ASCII** (American Standard Code for Information Interchange) **mode** or the **RTU** (Remote Terminal Unit) **mode**.
- In the **ASCII MODE**, two eight-bit bytes of data are sent as two ASCII characters.
 - The primary advantage of ASCII mode is the flexibility of the timing sequence.
 - Up to a one second interval can occur between character transmissions without causing communication errors.
- In the **RTU MODE**, data is sent as two four-bit, hexadecimal characters, providing for higher throughput than in ASCII mode for the same baud rate.
- Modbus Plus communicates using a single twisted pair of wires in one shielded cable (#18AWG).
- Modbus Plus *does NOT* provide power on the network.
- Maximum of up to **32 Nodes**, and up to **64** with a Repeater.



NO.	DESCRIPTION	
1	Communication LED	
2	Device Status LED	
3	Modbus-TCP Interface	





5.7.4. Modbus-TCP, Continued

COMMUNICATION LED

LED STATE	DESCRIPTION	
OFF	No power - OR – no traffic	
YELLOW	Frame reception or transmission	
RED	A fatal error has occured	

DEVICE STATUS LED

LED STATE	INDICATION
OFF	Initializine – <i>OR – n</i> o power
GREEN	Module initialized, no error
RED	Internal error – OR –major unrecoverable fault
RED, SINGLE FLASH	 Communication fault or configuration error Case 1: Invalid setttings in Network Configuration error Case 2: Settings in Network Configuration Object has been changed during runtime (i.e. the settings do not match the currently used configuration).
RED, DOUBLE FLASH	Application diagnostics available.

Modbus-TCP INTERFACE

PIN	DIRECTION	SIGNAL	COMMENT
Housing	—	PE	Protective Earth
1	—	GND	Bus polarization, ground (isolated)
2	Output ³	5V	Bus polarizatino power +5V DC (isolated
3	Input	PMC	Connect to pin #2 for RS-232 operation
4			
5	Bidirectional	B-LINE	RS-485 B-Line
6			
7	Input	RX	RS-232 Data Receive
8	Output	ТХ	RS-232 Data Transmit
9	Bidirectional	A-Line	RS-485 A-Line



5.7.5. PROFIBUS-DP

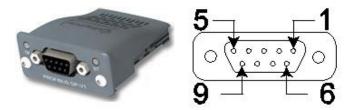
PROFIBUS-DP (**30922**) is one of the bestknown industrial Fieldbus protocols from Europe.

- It is an established standard, used in a wide range of applications as a multi-application communications link for industrial devices.
- The PROFIBUS-DP protocol was originally developed by a committee founded by the German government.



PROFIBUS-DP utilizes a non-powered two-wire (RS-485) Network.

- A PROFIBUS-DP Network may have **up to 126 nodes**, transfering a maximum of **244 bytes data per node/ per cycle**.
- Baud (Communication) Rates are selectable, and overall end-to-end network distance varies with speed.
- The maximum standard Baud Rate is **12Mbps**, with a maximum distance of **100M (328ft)**, and **1200M (3936 ft)** at **93.75Kbps** without repeaters.



PIN	SIGNAL	DESCRIPTION
3	B-Line	Positive RxxD/TxD, Rs485 level
4	RTS	Request to Send
5	GND Ground (Isolated)	
6	+5 Bus +5V termination power (Isolated, short circuit protected)	
8	A-Line	Negative RXD/TxD, RS485 level



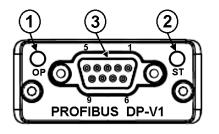
5.8.5. PROFIBUS-DP, Continued

OPERATION MODE LED

LED STATE	DESCRIPTION	COMMENTS
OFF	Not online or No power	
Green	Online/ Data Exchange	
Flashing Green	Online, clear	
Flashing Red (1 flash)	Parameterization error	See Parameterization Data Handling
Flashing Red (2 flashes)	PROFIBUS-DP configuration error	See Configuration Data Handling

MODULAR STATUS LED

LED STATE	DESCRIPTION	COMMENTS
OFF	No power - OR – not initialized	Module state = "SETUP" OR NW-INIT"
Green	Initialized	Module has left the NW_INIT state
Flashing Green	Initialized, diagnostic events(s) present	Extended diagnostic bit is set
Red	Exception error	Module state = EXCEPTION



NO.	DESCRIPTION
1	Communication LED
2	Device Status LED
3	Modbus-TCP Interface

NOTE: Additional information and **EDS files** are available at the following website. <u>https://www.fairbanks.com/support/software.cfm</u>

Section 6: Accessories

6.1. Accessory Parts Reference

PART NO.	DESCRIPTION
30917	EXPANSION BOARD ACCESSORY KIT
30922 thru 30925	FIELDBUS INTERFACE ACCESSORY KIT(S)
30921	SERIAL EXPANSION BOARD ACCESSORY KIT
30937	INSTALLING THE RS-485 SERIAL PORT ACCESSORY KIT
26258	SHROUD KIT
	READER (ONE ONLY)
32020	 Bar Code//Magnetic Stripe Sedge Reader*
32083	– Proximity Reader*
32019	ALPHANUMERIC KEYPAD KIT
	SCALE COMMUNICATIONS (ONE ONLY)
31079	 Analog (internal)*
30916	 Digital Intalogix (Internal)*
26422	RTU HEATER KIT
30921	RS232 MODULE PC104 PCB ASSY
32085	PRINTER COMPARTMENT, DOT 3.00 EPSON
30023	PRINTER COMPARTMENT HEATER WITH 36" CORD
22269	POLE MOUNT KIT
31866	FILTERED COOLING FAN KIT
30920	RELAY KIT
32085	EPSON TM-U230 PRINTER
11535	– Paper Roll
29647	– 2-Ply Paper
29260	– Ribbon
32676	– Parallel Cable
29215Q	 Printer with Enclosure
32403	EPSON EU-T432 PRINTER
11535	 3" width, 3"diameter, 1-ply, Paper Roll
29647	 3" width, 3"diameter, 2-ply, Paper Roll
32404	 3" width, 8"diameter, 2-ply, 1268' Paper Roll
32676	– Parallel Cable
32674	– Power Supply
32673	 Printer with Enclosure
	FIELDBUS INTERFACE KITS
30922	– PROFIBUS-DP Kit
30923	– DeviceNet Kit*
30924	– ControlNet Kit*
30925	– Modbus-TCP Kit

* Only one (1) Fieldbus Kit per instrument.



6.2. Programming the Traffic Light Control

The **TRAFFIC LIGHT CONTROL** shows the status of the scale's traffic light. It is typically controlled automatically by the instrument weighment cycle.

- The light has a manual override using the touch screen on the main weighing display.
- Each of the two (2) I/O RELAY CARDS supports two (2) sets of lights, totaling four (4) Stop Light Units.

Follow these steps to configure the Traffic Light Control.

- 1. Using an external keyboard, press
- 2. **ALT + HOME**.
- 3. Select LOGIN.
- 4. Enter the Supervisor Password.
- 5. Open the **CONFIGURATION MENU**.
- 6. Press **PAGE FORWARD** twice.
- 7. Select TRAFFIC LIGHT CONTROL.
- 8. Select SCALE ID X TRAFFIC CONTROLS.

HOME	BACK: HOME	Configuration Menu		
AUDIT TRAIL				
	Traffic Light Con	trol		
CONFIGURATION MENU	Configuration Op	tions		
RETURN TO WEIGHING	Video Camera Inputs			
	Network Parame	ters		
	Printer Spooler			
	Report Printer			
	PAGE BACK	PAGE FORWARD		

BACK: CONFIGURATION MENU	Traffic Light Control
Scale ID 1 Traffic Controls	



6.2. Programming the Traffic Light Control, Continued

- 9. Select the **TRAFFIC LIGHT** Control button to one of the following options.
 - Disabled
 - 1 Traffic Light
 - 2 Traffic Light
- 10. In the second button to the right, select whether the **Traffic Lights** operate in a **MANUAL** or **AUTOMATIC** mode.

HOME	BACK: TRAFFIC LIGHT CONTRO	□ Traffic Light: Scale1			Scale1
AUDITTRAIL	Traffic Light:	Disable	d	Automatic	
OPERATOR MENU	Barrier/Gate:	Disable	d	Automatic	
CONFIGURATION MENU	Loop Detector:	Disable	d		
RETURN TO WEIGHING	Zero on Approach:	No			
	Inhibit if Active:	ive: No			
	Complete Cycle:	No			
	SAVE CHANGES				
				PAC	SE FORWARD

номе	BACK: TRAFFIC LIGHT CONTROL	Traffic Light: Scale1
AUDIT TRAIL	Traffic Light:	CANCEL
OPERATOR MENU	Disabled	
CONFIGURATION MENU	1-Traffic Light	
RETURN TO WEIGHING	2-Traffic Lights	

номе	BACK: TRAFFIC LIGHT CONTROL	Traffic Light: Scale1
AUDIT TRAIL	Traffic Light:	CANCEL
OPERATOR MENU	Automatic	
CONFIGURATION MENU	Manual	
RETURN TO WEIGHING		

- 11. Select the **BARRIER/GATES** Control button.
- 12. In the second button to the right, select whether the **Barrier/Gates** operate in a **MANUAL** or **AUTOMATIC** mode.

номе	BACK: TRAFFIC LIGHT CONTROL	Traffic Light: Scale1
AUDIT TRAIL	Barrier/Gate: CANC	
OPERATOR MENU	Disabled	
CONFIGURATION MENU	1-Barrier/Gate	
RETURN TO WEIGHING	2-Barriers/Gates	

НОМЕ	BACK: TRAFFIC LIGHT CONTROL	Traffic Light: Scale1
AUDIT TRAIL	Barrier/Gate	CANCEL
OPERATOR MENU	Automatic	
CONFIGURATION MENU	Manual	
RETURN TO WEIGHING		



6.2. Programming the Traffic Light Control, Continued

13. Select the **LOOP DETECTOR** Control button.

 Sensor contact plates alert that the vehicle has entered the scale, and also that it is leaving.

14. Select the correct Loop Detector.

- Extra LOOP choices (*i.e.* 3- Loop, 4-Loop) appear when the optional Digital Relay Card (30920) is added to the Instrument.
- 15. Select the **ZERO ON APPROACH** Control button.
 - Only when the scale is on ZERO (0) with the light change to green and let the driver advance.
- 16. Choose NO or YES.
- 17. Select the **INHIBIT IF ACTIVE** Control button.
 - Selecting YES will NOT allow a weighment to be processed if a loop detector is "active".
 - This ensures that a truck is fully scale-borne before a weight can be processed. Trucks which are in succession cannot stop on the top of the loops, or the weighment transaction will discontinue.

OR

- Selecting **NO** allows a transaction to be processed, even if a the vehicle is still detected at the loop.
- 18. Select the **COMPLETE CYCLE** Control button.
 - Only when the entire weighment process is complete, and the ticket is available for the driver, will the light change to green, letting the vehicle advance.
- 19. Choose NO or YES.

НОМЕ	BACK: TRAFFIC LIGHT CONTROL	Traffic Light: Scale1
AUDIT TRAIL	Zero on Approa	ch: CANCEL
OPERATOR MENU	No	
CONFIGURATION MENU	Yes	
RETURN TO WEIGHING		

НОМЕ	BACK: TRAFFIC LIGHT CONTRO	DL	Traf	fic Light:	Scale1
AUDITTRAIL	Traffic Light:	Dis	abled	Automatic	
OPERATOR MENU	Barrier/Gate:	Dis	abled	Automatic	
CONFIGURATION MENU	Loop Detector:	Dis	abled		
RETURN TO WEIGHING	Zero on Approach:		No		
	Inhibit if Active:		No		
	Complete Cycle:		No		
	SAN	SAVE CHANGES			
				PAG	SE FORWARD

НОМЕ	BACK: TRAFFIC LIGHT CONTROL	Traffic Light: Scale1
AUDIT TRAIL	Loop Detector	CANCEL
OPERATOR MENU	Disabled	
CONFIGURATION MENU	1-Loop	
RETURN TO WEIGHING	2-Loops	

Traffic Light: Scale1

Time Delay of 1 Second

Time Delay of 3 Seconds Time Delay of 5 Seconds Time Delay of 7 Seconds

Time Delay of 9 Seconds

CANC



6.2. Programming the Traffic Light Control, Continued

IOME

UDIT TRAIL

- 20. Press the **SAVE CHANGES** button when any changes are made, or they will be lost.
- 21. Press **PAGE FORWARD**.
- 22. To the right of the **Event to Signal:**, select **TIME DELAY OF X SECONDS** Control button.



BACK: TRAFFIC LIGHT CONTROL

Final Wt Over Last Section

Time Delay of 2 Seconds

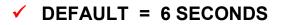
Time Delay of 6 Seconds

rime Delay of 8 Seconds

Time Delay of 10 Seconds

Event To Signal:

- 23. Click on the correct time value.
 - This is the **Time Delay** from when the truck enters the scale.



24. Select the **TRAFFIC DIRECTION** Control button.

- This selects which way the vehicles will normally be traveling.
- 25. Select either **INBOUND** or **OUTBOUND**.
- 26. Select either the **SET ALL OUTPUTS ON** or the **SET ALL OUTPUTS OFF** Control Button.
 - Activates or deactivates the Traffic Lights.
- Press the SAVE CHANGES button when any changes are made, or they will be lost.
- Select BACK: TRAFFIC LIGHT CONTROL to return to the Traffic Light Control Menu.







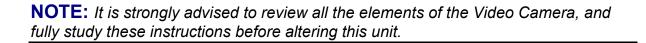
6.3. Video Setup

NECESSARY TOOLS

- Laptop computer with rights to change the IP Address.
- Ethernet Cable with either of the following:
 - **Crossover cable** direct to the pc and camera.

OR...

- **Straight-through cables**, switch, pc and camera.



6.3.1. Camera Setup & Configuration

A. Open Internet browser on laptop.

http://192.168.0.90/pwdroot/pwdRoot.shtml

B. In the Internet browser **Address** field, enter the **Video Camera's IP Address** and press **ENTER**.

✓ DEFAULT ADDRESS = <u>HTTP://192.168.0.90</u>

C. Logon as the Username root user.

NOTE: This was required on initial connection to the camera.

If the **Username root password** is unknown, try "Root" as the password.

		☆ :
	-	00
User Username root Role Administrator PTZ user Yes	k	

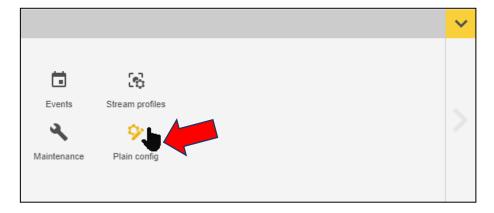
D. Go to the bottom right of the page and click on <u>settings</u> image to expand the settings menu.







E. Click the Plain Config icon in the bottom right corner.



F. Select "System" from the dropdown list of options then click on Select Group.

AXIS AXIS	5 F	1364 Network Camera		
The plain config page allows direct access to all the con Camera.This page uses no extra scripts (Javascript or or Select the parameter group to modify and configure the				
For help on parame Select a group of pa		s, please refer to the relevant help meters to modify:		
System	•	Select group		
MediaClip	*	7		
Motion				
Network				
NetworkLED				
Outract				

G. Locate Allow Anonymous viewers and make sure the checkbox is checked.

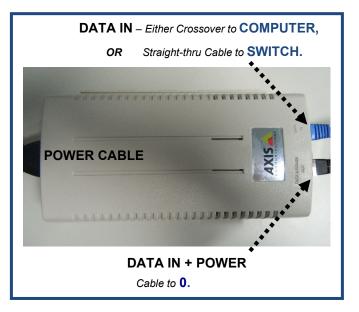
System •	Select group		
System			
Access Log:			
Alternate HTTP port:		0	[065535]
HTTP DSCP:		0	[063]
HTTP Server Timeout		180	[60600]
HTTP port:		80	[165535]
Allow anonymous view	vers:		
Capture frequency set:		4	
		H. Pres	ss Save
DoS Site Interval(sec):			
Save page changes: Sav	/e Reset		

NOTE: If no video feed is present, first open a new browser and try accessing the camera without a password. *If that works, REBOOT the instrument.*



6.3.2. Installing the Camera Without Factory Defaults

- 1. Plug in the **PoE CABLE** (**Power over Ethernet**) into the Video Camera.
- 2. Plug in the **DATA CABLE** to the **Power Supply**, either from a computer or local switch.
- 3. Connect the **POWER SUPPLY**.



6.3.3. Axis Network Setup

- 4. Select **NETWORK**, found in the bottom-left column of page.
- 5. From the IPv4 Address Configuration in the initial screen, select the USE THE FOLLOWING IP ADDRESS radio button.
- 6. Enter the correct **IP ADDRESS**.
- 7. Press **SAVE**.
- 8. Press **OK** at the warning prompt.

AXISA AX	CIS P1343 Network Camera Live View Setup Help			
Basic Setup	Basic TCP/IP Settings			
a stide a standia	Network Settings			
Video & Audio	View current network settings: View			
Live View Config	IPv4 Address Configuration			
Applications	🗹 Enable IPv4			
Events	Obtain IP address via DHCP			
Recordings	Use the following IP address:			
	IP address: 192.168.0.92 Test			
 System Options Security 	Subnet mask: 255.255.0			
Date & Time	Default router: 192.168.0.1			
 Network TCP/IP 	Default router: 192.168.0.1			
Basic				
Advanced	Enable IPv6			
SUCKS OoS	Services			
SMTP (email)	Enable ARP/Ping setting of IP Address			
SNMP UPnP™	C Enable AVHS			
RTP	One-click enabled			
Bonjour • Storage	AXIS Internet Dynamic DNS Service Settings			
 Ports & Devices 	Save Reset			
LED	Save Reset			
Maintenance Support				
 Advanced 				
About				



6.3.4. Resetting to the Axis Factory Defaults

Restoring the **Factory Default Settings** is used when the previous steps do not resolve problems with the Camera Unit.

- 1. Disconnect the **POWER CABLE** from the Camera unit.
- 2. Remove the **two (2) Torx** screws, holding the camera into place with a **T20 ALLEN KEY**.

3. Flip the camera over to reveal the control components on the bottom.





- 4. Reconnect the **Power Cable**.
 - Wait approximately **fifteen (15) seconds** until the **NET** and **PWR** led lights are orange.
- 5. Press and hold the **RESET** button for approximately **thirty (30) seconds** until the **NET** led light flickers green, then release **RESET** button.
 - Doing this resets the Factory Defaults.
- 6. Reassemble the Camera Unit and follow **STEPS 1-16** from **SECTION 11.2**. and **11.2.1**. to complete the programming process.



6.3.5. Video Camera Programming

- 1. Open the **CONFIGURATION MENU**.
- 2. Press **PAGE FORWARD** twice.
- 3. Select VIDEO CAMERA INPUTS.

The FB2560 DAT has two (2) IP video camera inputs.

- These can be stored with the Transaction Data
- They can be displayed on the FB2560 DAT's Weigh Screen, Idle Screen: setting, in various ways.
- To activate this feature, select YES to one or both of the CAMERA 1 or 2 ENABLED options.
- 5. Select the CAMERA 1 or 2 TYPE.
- 6. Enter the CAMERA 1 or 2 IP address.
- 7. Press **PAGE FORWARD**.

HOME BACK: HOME Configuration Menu AUDIT TRAIL Threshold Weights OPERATOR MENU Traffic Light Control CONFIGURATION MENU Configuration Options RETURN TO WEIGH & Video Camera Inputs Printer Spooler Report Printer PAGE BACK PAGE FORWARD





- 8. Select either **NONE**, **CAMERA 1**, **CAMERA 2**, or **TOGGLE** for each of the button options listed below.
 - The video camera can toggle between the two cameras or display them individually.
 - Idle Screen
 - en Select Screen
 - Store Trans
- Store Blind Ctr (Control)
- Print Ticket File Format





6.3.5. Video Camera Programming, Continued

9. In the **File Format** option, save the images in either a **PDF** or **JPG file format**.

HOME	BACK: CONFIGURATION MENU	Camera
AUDIT TRAIL	File Format:	CANCEL
OPERATOR MENU	JPG Image (*.JPG)	
CONFIGURATION MENU	Bitmap Image (*.BMP)	
RETURN TO WEIGHING		

- Press the **SAVE CHANGES** button when any changes are made, or they **will be lost**.
- Select **BACK: CONFIGURATION MENU** to return to the **Configuration Menu**.

Section 7: Service and Maintenance

7.1. Database Maintenance

7.1.1. Database Backup

The FB2560 DAT has three (3) methods of database backup routines.

A. BACKUP DATABASE TO FLASH

Backs up the database to the PCLe located on the SBC.

B. BACKUP DATABASE TO EXTERNAL FLASH

Backs up the database to a USB Flash drive, inserted into an available USB port on the instrument rear panel.

C. BACKUP AND SEND AN EMAIL

Backs up the database and attach the file to an email, which is sent to a predetermined user.



A. BACKING UP DATABASE TO FLASH:

- 1. Press **ALT + Home**.
- 2. Select **LOGIN**, then enter the **Supervisor Password**.
- 3. Press the **LOGIN** button.
- 4. Select CONFIGURATION MENU.
- 5. Select DATABASE MAINTENANCE.
- 6. Select Backup **DATABASE TO FLASH**.

7. Select either the **CONTINUE** or the

CANCEL button.

НОМЕ	ВАСК: НОМЕ	Configuration Menu	
AUDIT TRAIL	Write Customer Pa	issword	
OPERATOR MENU	Write Remote Custo	mer Password	
CONFIGURATION MENU	Blind Counter		
RETURN TO WEIGHING	Database Editors		
2	Database Maintenance		
ŏ	Reports		
	Programmable Leg	jends	
		PAGE FORWARD	

номе	BACK: CONFIGURATION MENU Database Maintenance			
AUDIT TRAIL	Backup Database to Flash			
	Backup Database to External Flash			
CONFIGURATION MENU	Backup and Send via Email			
RETURN TO WEIGHING	· ·			
	Download Database Backup			
	Restore Database from Flash			
	Restore Database from External Flash			
	Restore Database from Defaults			
	PAGE FORWARD			

Database Backup

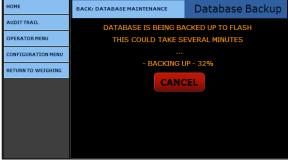
AUDIT TRAIL	WARNING			
OPERATOR MENU	THIS OPERATION WILL OVERWRITE YOUR CURRENT			
CONFIGURATION MENU	SETTINGS			
RETURN TO WEIGHING		CANCEL	CONTINUE	

BACK: DATABASE MAINTENANCE

HOME



- When the **BACKING UP** process is performed, the data's integrity is
 VERIFIED against the backup.
- The currently existing transaction data will be **CLEARED** from the database and prepared for new transaction data.
- 8. Press the **CONTINUE** button to return to the **Database Maintenance Menu**.



9. Press **RETURN TO WEIGHING** to exit to the Weight Screen.

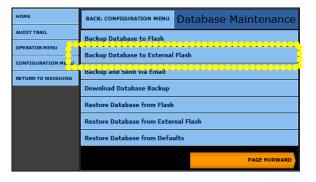
номе	BACK: DATABASE MAINTEN	IANCE	Database Backup
AUDITTRAIL	DATABAS	SE BACKU	P IS COMPLETE
OPERATOR MENU	SUCCESS!		
CONFIGURATION MENU		CONTI	NUE
RETURN TO WEIGHING			



B. PROCEDURE BACKUP DATABASE TO EXTERNAL FLASH:

- 1. Insert a **USB Flash drive** into an available USB port on the rear panel.
- 2. Press ALT + Home.
- 3. Select LOGIN, enter the Supervisor Password.
- 4. Press the **LOGIN** button.
- 5. Select CONFIGURATION MENU.
- 6. Select DATABASE MAINTENANCE.
- 7. Select BACKUP DATABASE TO EXTERNAL FLASH.
 - A warning message displays.

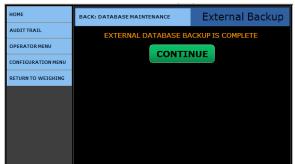
НОМЕ	ВАСК: НОМЕ	Configuration Menu		
AUDIT TRAIL	Write Customer Password			
OPERATOR MENU	Write Remote Custo	mer Password		
CONFIGURATION MENU	Blind Counter			
RETURN TO WEIGHING	Database Editors	Patabase Erlitors		
	Database Maintenance			
•	Reports	Reports		
	Programmable Legends			
		PAGE FORWARD		



8. Select either **CONTINUE** or **CANCEL**.



- After completing the External Backup, press the CONTINUE button to return to the Database Maintenance menu.
- Press BACK: DATABASE MAINTENANCE to exit to the Database Maintenance Menu.

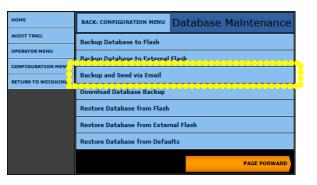




C. BACKUP AND SEND AN EMAIL

- 1. Press ALT + Home.
- 2. Select LOGIN, enter the Supervisor Password.
- 3. Press the **LOGIN** button.
- 4. Select CONFIGURATION MENU.
- 5. Select DATABASE MAINTENANCE.
- 6. Select BACKUP AND SEND VIA EMAIL.

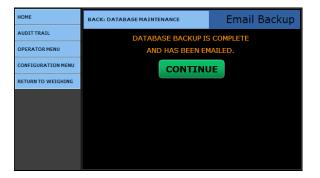
НОМЕ	ВАСК: НОМЕ	Configuration Menu	
AUDIT TRAIL	Write Customer Password		
OPERATOR MENU	Write Remote Custo	mer Password	
CONFIGURATION MENU	Blind Coupter		
RETURN TO WEIGHING	Database Editors		
ē	Database Maintenance		
	Reports		
	Programmable Legends		
		PAGE FORWARD	





7. Select either **CONTINUE** or **CANCEL**.

- After completing the External Backup, press the **CONTINUE** button to return to the **Database Maintenance menu**.
- Press RETURN TO WEIGHING to exit to the Weigh Processing screen.





7.1.2. Database Restore

RESTORE DATABASE FROM FLASH uses a database backup from the **PCLe**, located on the **SBC**.

• This restores the instrument to the same condition it was configured as when the Backup was performed.

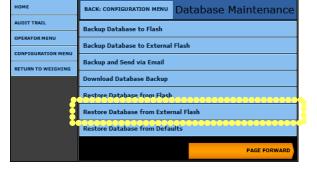
RESTORE DATABASE FROM EXTERNAL FLASH uses a database backup from an External USB Flash Drive.

 This restores the instrument to the same condition it was configured as when the backup was performed.

A. RESTORING THE DATABASE FROM FLASH:

- 1. While in the **WEIGH SCREEN**, press **ALT + HOME** on the *external keyboard.*
- 2. Select LOGIN, enter the Supervisor Password.
- 3. Press the **LOGIN** button.
- 4. Select CONFIGURATION MENU.
- 5. Select DATABASE MAINTENANCE.

6. Select **RESTORE DATABASE FROM FLASH**.



васк: номе

Blind Counter

Reports

Write Customer Password

Database Maintenance

Programmable Legends

Write Remote Customer Password

AUDIT TRAIL

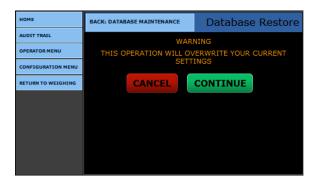
DPERATOR MENU

CONFIGURATION MEN

Configuration Menu

PAGE FORWAR

7. Select either **CONTINUE** or **CANCEL**.





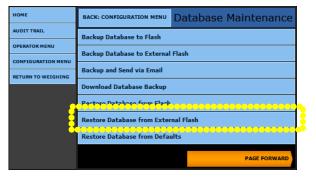
7.1.2. Database Restore, Continued

- 8. Once the process is complete, press the **CONTINUE** button to return to the **Database Maintenance menu.**
- Press RETURN TO WEIGHING to exit to the Weigh processing screen.



B. RESTORING THE DATABASE FROM EXTERNAL FLASH:

- 1. Select LOGIN.
- 2. Enter the Supervisor password.
- 3. Select CONFIGURATION MENU.
- 4. Select DATABASE MAINTENANCE.
- 5. Select RESTORE DATABASE FROM EXTERNAL FLASH.
- 6. Select the backup file which is to be restored from a menu list as shown.
- A warning will have presented display of whether to proceed.
- It will also indicate the file selected from the external USB flash drive to ensure the correct one has been selected.
- Press Continue button to complete the process or press the Cancel button to stop the procedure.



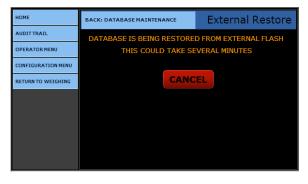






7.1.2. Database Restore, Continued

7. The restore process has started and this process can take several minutes to complete.



The Database Restore process is complete.

- 8. Press the **CONTINUE** button to return to the **Database Maintenance menu**.
- 9. Press **Return to Weighing** to exit to the Weight Screen.

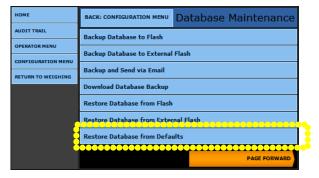
номе	BACK: DATABASE MAINTENANCE	External Restore	
AUDIT TRAIL	DATABASE RESTOR	E IS COMPLETE	
OPERATOR MENU	RESTORE COMPLETE!		
CONFIGURATION MENU	CONTI	NUE	
RETURN TO WEIGHING			



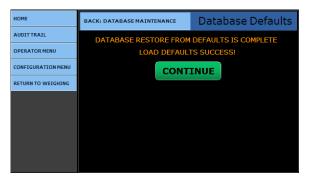
7.1.2. Database Restore, Continued

C. PROCEDURE RESTORE DATABASE FROM DEFAULTS:

- 1. Select LOGIN.
- 2. Enter the Supervisor Password.
- 3. Press the **LOGIN** button.
- 4. Select CONFIGURATION MENU.
- 5. Select DATABASE MAINTENANCE
- 6. Select **RESTORE DATABASE FROM DEFAULTS**.
 - A warning will display asking whether to proceed.
 - It will also indicate to ensure the correct one has been selected.
- 7. Press **CONTINUE** button to complete the process or press the **CANCEL** button to stop the procedure.
 - This process could take several minutes.
- 8. When the **Database Default Restore** process is complete, press the **CONTINUE** button to return to the **Database Maintenance menu**.
- 9. Press **RETURN TO WEIGHING** to exit to the Weigh processing screen.





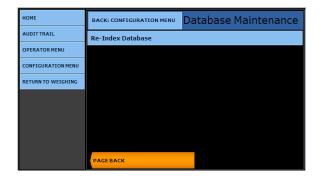




7.1.3. Re-Index Database

A. PROCEDURE TO RE-INDEX DATABASE:

- 1. Select **LOGIN**.
- 2. Enter the Supervisor Password.
- 3. Select CONFIGURATION MENU.
- 4. Select DATABASE MAINTENANCE.
- 5. Press **PAGE FORWARD** once.
- 6. Select **RE-INDEX DATABASE**.



NOTE: A warning will display of whether or not to proceed. This process could take several minutes.

- Press CONTINUE button to complete the process or press the CANCEL button to stop the procedure.
- 8. When the **Database Re-Index** process is complete, press the **CONTINUE** button to return to the **Database Maintenance menu.**



• Press RETURN TO WEIGHING to exit to the Weigh Processing Screen.

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7.1.4. Transaction Data Backup Days Reminder

This option generates a reminder warning email that the database has not been backed up recently.

• A value of **0** disables this feature.

A. PROCEDURE TO ACTIVATE THE TRANSACTION DATA BACKUP DAYS:

HOME

- 1. Press ALT + Home.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select CONFIGURATION MENU.
- 5. Press **PAGE FORWARD** twice.
- 6. Select CONFIGURATION OPTIONS.
- 7. Enter the **NUMBER OF DAYS** which will trigger the backup reminder beside the **Transaction Data Backup Days:.**
- 8. Selecting **BACK: CONFIGURATION MENU** will return the user to the Configuration menu.

AUDIT TRAIL	Threshold Weights	
OPERATOR MENU	Traffic Light Control	
CONFIGURATION MEN	Configuration Options	
RETURN TO WEIGHING	Video Camera Inpúts	
	Network Parameters	
	Printer Spooler	
	Report Printer	
	PAGE BACK	PAGE FORWARD

Configuration Menu

BACK: HOME

НОМЕ	BACK: CONFIGURATION MENU			System
AUDITTRAIL	Auto Switch Scale:	No		
OPERATOR MENU	Assign Formats To			
CONFIGURATION MENU	Customers:	No		
RETURN TO WEIGHING	Printer Selection: No			
	Interface Hardware: Acc 2018 Relay E		Relay Box	
	Transaction Data Backup Days: 0			
	SAV	/E CHAN	GES	

• Press RETURN TO WEIGHING to exit to the Weigh Processing Screen.



7.2. Remote Configuration Access

The FB2560 DAT may be configured by remote access. A connection to the local network can provide access to the FB2560 by any computer on the network.

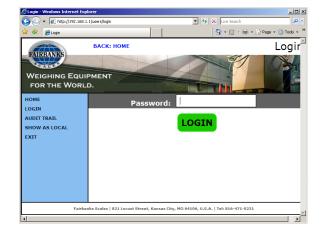
- This access may be allowed or denied at the instrument by the operator or supervisor.
- Another method of remote configuration is done by connecting directly to the FB2560 DAT using a crossover network cable.
- The menus presented can be in a Web format or displayed exactly as it appears locally at the instrument.
- The FB2560 Instrument must be connected to a network or direct connected using a crossover network cable to a computer.
- The FB2560 must have the Network parameters configured.

NOTE: See Section 4.8. Network Parameters Configurations.

- 1. From the **Configuration Menu,** open **INTERNET EXPLORER** on the computer.
- 2. Type in the **IP ADDRESS** of the FB2560 DAT into the **Address bar**.
 - Sample: http: //192.168.xxx.xxx.
 - The Configuration Home window will appear as shown.



- 3. Select LOGIN.
- 4. Enter the Supervisor Password.
- 5. Press the **LOGIN** button.
 - Wait for confirmation from the FB2560 DAT.





7.2. Remote Configuration Access, Continued

- 6. When requested for access on the Instrument, enter the **IP ADDRESS** of the requesting computer written above the entry box.
- 7. Press the **ENTER** button, either on the keypad or the keyboard.
- 8. Press the **ALLOW** button on the Instrument screen.
- When confirmed, an **Access Granted** screen appears.
- 9. Select the menu or function to view or edit.
- SAVE ALL CHANGES.





- 10. Select **SHOW AS LOCAL** to direct the Instrument's image onto the computer monitor.
- 11. Select LOGIN.
- 12. Enter the Supervisor Password.

НОМЕ	ВАСК: НОМЕ		Login
LOGIN	Password:		
AUDIT TRAIL			
OPERATOR MENU	L	OGIN	
RETURN TO WEIGHING			



7.2. Remote Configuration Access, Continued

- The menus will appear exactly the same as the display on FB2560 DAT.
- The FB2560 DAT is not usable while the **Remote Access** is being performed.
- A blue notification screen appears while the **Remote Configuration** is active.
- 13. When viewing or editing is complete, press **LOGOUT.**





7.3. Cell Fail Error Codes

The error condition of Cell Fail appears on the display when a condition exists to prevent proper weighing. Underneath the Cell Fail error in a small display font is the words: **Type: xx** Cell: x.

This posts the error type the indicator identifies and the load cell which exhibits this problem or the problem area.

TYPE ERROR CODE	DESCRIPTION
1	Cell Zero Error
2	Cell Section Error
4	Cell Motion Error
8	Cell Calibration Error
10	Cell Out of Range Error
20	SSC Communication Error
40	Old Revision Board

Section 8: Network Application Configuration

8.1. Introduction

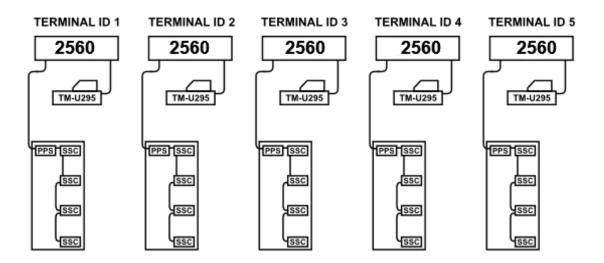
Some of the application uses are listed below.

- Customers with different scales at one site, can weigh in using one scale, then weigh out with another.
- Customers need to process transactions on the same scale from two different locations, such as the scale house during the day, and the guard house at night.
- Customers who need monitoring weighs on multiple scale platforms from a remote location.
- Customers processing weights from Instruments in Hostile Environment Enclosures mounted outside, and then produce and print reports from a standard unit in an office environment.

8.2. Standard Network Setup

Up to five (5) FB2560 DAT can be networked together using up to one (1) scale platform.

- Each of the FB2560 DAT becomes a Terminal on the network. Each Terminal can display its own weight or process transactions for scale 1 on the network.
- Peripheral devices, such as printers and remote displays, can be connected locally, or to any Terminal on the network.



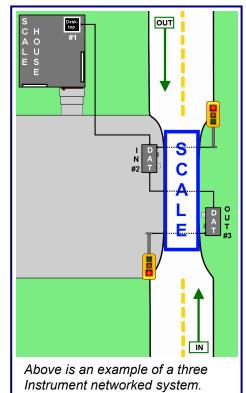
* Instruments networked via Ethernet Connections.



8.2. Standard Network Setup, Continued

Each Terminal can view weights and process transactions from any scale on the network, as well as traffic light control. Transactions can be connected locally to a printer.

- A re-direct option in each Terminal is available to cause a print to occur to a specific remote Terminal on the network.
- Transaction information is shared by each Terminal on the network. Both incomplete and complete transactions are instantly shared with all Terminals on the network.
 - Customer
 - Products
 - Product Groups
 - Product Group Products
 - Tares
- Data entered into the database of a Terminal may be imported by a different Terminal on the network.







8.2.1. Network Connections

According to the **ANSI/TIA/EIA Standard** for **Category 5e Copper Cable**, the maximum length for any cable segment is **one hundred meters** (**100m, or 328 ft.**)

• If longer runs are required, use active hardware such as a repeater or a switch, as is necessary.

When networking one **FB2560 DAT** to another **FB2560 DAT** [two (2) Terminals *only*], use a **Cross-over Cable**.

• For any other cabling connections, use a straight through cable.

8.2.2. Testing Connectivity

Follow these steps to test the Network Connectivity.

1. OPTION A

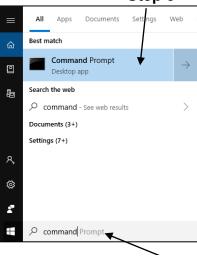
Connect a laptop to the network using a straight-through cable.

OR

OPTION B

Connect directly to the Instrument with a cross over cable.

- The following assumes the computer's operating system is Windows 8 or higher.
- Click in the Search box START button, then type "Command"
- 3. Double click on **COMMAND PROMPT**
 - A DOS window will appear.
- 4. At the DOS prompt, type **ping xxx.xxx.xxx.**
 - X is the Terminal Number being tested.
- 5. Press the **ENTER** key.





Pinging TerminalX [xxx.xxx.xxx] with 32 bytes of data: Reply from xxx.xxx.xxx: bytes=32 time<1ms TTL-128 Ping statistics for 206.220.166.209: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round-trip times in milli-seconds:

Minimum = 0ns, Maximum = 0 ms, Average = 0 ms

If the test response is similar this example, the communication test is successful

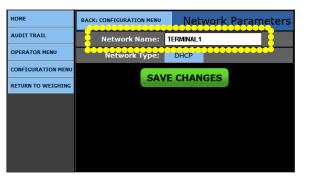
8.3. Network Setup Procedure

8.3.1. Network Terminal Name

Follow these steps to setup the Network Name.

- 1. From the Weigh Screen, select **ALT + MENU.**
- 2. Select **LOGIN** and enter the **Service Password**.
- 3. Select the CONFIGURATION MENU.
- 4. **PAGE FORWARD** twice.
- 5. Select NETWORK PARAMETERS.
- 6. Input a **NETWORK NAME** from the list below.
 - TERMINAL1
 - TERMINAL4TERMINAL5
 - TERMINAL2
 TERMINAL3









- 7. Press the **SAVE CHANGES** button when any changes are made or they will be lost.
- 8. Return to the Weigh Screen.
- 9. Shut down and restart the FB2560 DAT.

All setup changes will apply after the Instrument reboot.

IMPORTANT NOTE: Reboot the FB2560 DAT correctly, or program files can become **corrupted**.

See Section 2.3. Proper Shutdown Procedure

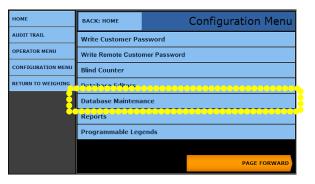
8.3.2. Synchronizing this Terminal

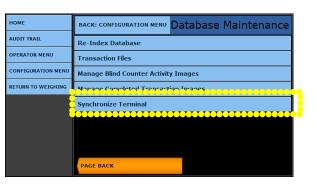
This populates the tables in this terminal with data from another terminal.

IMPORTANT NOTE: All data currently in the terminal database WILL BE LOST.

Follow these steps to Synchronize the *Terminal.*

- 1. From the Weigh Screen, press Menu.
- 2. Select LOGIN.
- 3. Enter the Supervisor Password.
- 4. Select the **CONFIGURATION MENU**.
- 5. Select DATABASE MAINTENANCE.
- 6. Select SYNCHRONIZE TERMINAL.
- 7. Select the correct **REMOTE TERMINAL** to synchronize, then press **CONTINUE**.









8.3.2. Synchronizing this Terminal, Continued

The tables noted below populate in the Remote Terminal with data from the other selected Terminal.

- Customers Products
- Tares Product Groups
- Product Groups Products
- After this process, complete and incomplete transactions are instantly shared with all Terminals on the Network.
- Calibration cannot be performed from a remote location. It must be performed at the Terminal to which the scale is physically connected.
 - This is also true for viewing cell diagnostics, peak weights, and cell errors.
- Traffic Light Controls cannot be configured from a remote location, but only at the Terminal to which they are physically connected.

Appendix I: Fieldbus Interface Reference Data

A. Introduction

The Fieldbus interface(s) support a bi-directional communication capability for the FB2560 DAT.

The FB2560 DAT Interface supports a variety of industrial protocols.

- These include **PROFIBUS-DP**, , **ControlNet** and **MODBUS-TCP**.

Power	9-40 VDC (24 VDC Nominal)
Power Consumption	300 mA typical 800 mA max (@24 VDC)
Interface connections	Fieldbus as selected, serial channel
LEDs/indicators	Power, Network connection
Operating Temperature	0 to 70 C
Storage Temperature	-40 to 85 C
Operating humidity	90% non-condensing
Enclosure rating	None
Mounting options	Thru holes
Others	RoHS
Physical Dimensions	4.24 inches x 3.20 inches
Approval	CE

B. Hardware Specifications



C. Software Specifications

OUTPUT DATA FORMAT TO GATEWAY

The **Gateway** takes a Serial String and remap the data to the format needed for the Fieldbus type installed per the register.

- The following is the definition of the **Serial String** for one (1) scale.
 - The Scale ID is extracted from Status Word 0.
 - The data is placed in the appropriate Fieldbus Registers based on this scale ID.
 - Status Word Data is sent as binary values MSB first over the Serial Channel.
 - Weight data is sent as six (6) characters representing a 6-digit decimal value (000000 – 999999).
 - This decimal value represents the weight multiplied by the scale factor, listed in Command/Status Word 1 bits 0-2.
 - The serial string is a fixed length of fifty-seven (57) bytes.

STX character	1 byte, (02h)	
Status word 0	2 bytes,	(includes scale ID)
Status word 1	2 bytes,	
Status word 2	2 bytes,	
Unassigned data	6 characters	(default '000000')
Gross Weight	6 characters	(example '002340')
Tare Weight	6 characters,	
Net Weight	6 characters,	
Setpoint 1	6 characters,	
Setpoint 2	6 characters,	
Flow Rate	6 characters,	
Unassigned data	6 characters,	
CRC	1 byte,	
ETX character	1 byte	(03h)



C. Software Specifications, Continued

NOTE WEIGHT VALUES sent over the Serial Channel will be represented in the Fieldbus registers based on the settings of **bits 14** and **15** in **STATUS WORD 0.**

- If the data is set to be a 16 bit or 32 bit integer, then the register value will contain the integer value and the host must multiply this by the scale factor to get the actual weight.
- If it is set to be a 16 bit integer, and the integer value is greater then **65535**, a value of **0** is placed in the register.
- If the data is set to be **FLOATING POINT**, then the gateway will multiply the integer value received by the scale factor, and place the resulting 32 bit floating point value in the register.
 - In this case the host does not use the scale factor to interpret the value.

INPUT DATA FORMAT FROM GATEWAY

The Gateway will send a string to the Serial Port reflecting data from the Fieldbus.

The following is the definition of the serial string for one (1) scale.

- The scale ID in the Fieldbus register for Command word 0 for a scale must be set to the correct value (1-4) before data for that scale will be sent over the serial channel.
- If the scale ID is set to the correct value, any time any data for this scale changes the data will be sent out the serial channel.
- Command word data is sent as binary values MSB first over the serial channel.
- Weight data is sent as six (6) characters representing a six (6) digit decimal value (000000 999999).
- This decimal value represents the weight multiplied by the scale factor listed in **command/status word 1 bits 0-2**.
- The serial string is a fixed length of **105 bytes**.



C. Software Specifications, Continued

INPUT DATA FORMAT FROM GATEWAY, CONTINUED

STX character	1 byte,	(02h)
Command word 0	2 bytes,	(includes scale ID)
Command word 1	2 bytes,	
Command word 2	2 bytes,	
Setpoint 1 weight	6 characters,	
Setpoint 2 weight	6 characters,	
Tare Weight	6 characters,	
Display Message 1	26 characters,	
Display Message 2	26 characters,	
Display Message 3	26 characters,	
CRC	1 byte,	
ETX character	1 byte	(03h)

NOTE WEIGHT VALUES sent over the serial channel will represent data in the Fieldbus registers based on the settings of **bits 14** and **15** in **STATUS WORD 0**.

- If the data is set to be a 16 bit or 32 bit integer, then the integer value in the register will be sent over the serial channel.
- If it is set to be 16 bit, the high order word will be ignored.
- If the data is set to be floating point, then the floating-point value will be multiplied by the scale factor and the integer portion of this resulting value will be sent over the serial channel.
- In all cases if the resulting integer is greater than **999999**, a value of **000000** will be sent over the Serial Channel.
- In all cases the scale must multiply the integer by the scale factor to determine the actual weight.
- Serial data is transferred according to the RS232 specification between the gateway and the FB2560 DAT. The communications parameters are listed below.

Baud	115,200
Data Bits	8
Parity	None
Stop Bits	1



D. Fieldbus Data Representation

The following information shows the representation of data on all Fieldbuses. Each Fieldbus has input data (from the gateway/scales to the Fieldbus), and output data (from the Fieldbus to the gateway/scales).

ALL FIELDBUS TYPES OUTPUT MEMORY MAP

START ADDRESS	HEX	DECIMAL	SIZE
Scale 1	0	0	10 Words
Scale 2	14	20	10 Words
Scale 3	28	40	10 Words
Scale 4	3C	60	10 Words
Scale Message Line 1	50	80	26 bytes
Scale Message Line 2	6A	106	26 bytes
Scale Message Line 3	84 1	32	26 bytes
Unassigned	9E	158	2 bytes
		T . (.)	

Total: 160 bytes

ALL FIELDBUS TYPES INPUT MEMORY MAP

START ADDRESS	HEX	DECIMAL	SIZE
Scale 1	0	0	20 Words
Scale 2	28	40	20 Words
Scale 3	50	80	20 Words
Scale 4	78	120	20 Words

Total: 160 bytes



OUTPUT DATA (WORD BYTE REGISTER USAGE)

WORD	BYTE	REGISTER USAGE	SIZE(BYTES)	SCALE
0	0 - 1	Command Word 0	2	Scale 1
1	2 - 3	Command Word 1	2	
2	4 - 5	Command Word 2	2	
3 - 4	6 - 9	Setpoint 1	4	
5 - 6	10 - 13	Setpoint 2	4	
7 - 8	14 - 17	Tare Weight	4	
9	18 - 19	Unassigned	2	
10	20 - 21	Command Word 0	2	Scale 2
11	22 - 23	Command Word 1	2	
12	24 - 25	Command Word 2	2	
13 - 14	26 - 29	Setpoint 1	4	
15 - 16	30 - 33	Setpoint 2	4	
17 - 18	34 - 37	Tare Weight	4	
19	38 - 39	Unassigned	2	
20	40 - 41	Command Word 0	2	Scale 3
21	42 - 43	Command Word 1	2	
22	44 - 45	Command Word 2	2	
23 - 24	46 - 49	Setpoint 1	4	
25 - 26	50 - 53	Setpoint 2	4	
27 – 28	54 - 57	Tare Weight	4	
29	58 – 59	Unassigned	2	



WORD	BYTE	REGISTER USAGE	SIZE(BYTES)	SCALE
30	60 - 61	Command Word 0	2	Scale 4
31	62 - 63	Command Word 1	2	
32	64 - 65	Command Word 2	2	
33 - 34	66 - 69	Setpoint 1	4	
35 - 36	70 - 73	Setpoint 2	4	
37 - 38	74 - 77	Tare Weight	4	
39	78 – 79	Unassigned	2	
	80 - 105	Display Message Line 1	26	All Scales
	106 - 131	Display Message Line 2	26	
	132 - 157	Display Message Line 3	26	

INPUT DATA (WORD BYTE REGISTER USAGE)

WORD	BYTE	REGISTER USAGE	SIZE(BYTES)	SCALE
0	0 - 1	Status Word 0	2	Scale 1
1	2 - 3	Status Word 1	2	
2	4 - 5	Status Word 2	2	
3 - 4	6 - 9	Unassigned	4	
5 - 6	10 - 13	Gross Weight	4	
7 - 8	14 - 17	Tare Weight	4	
9 - 10	18 - 21	Net Weight	4	
11 - 12	22 - 25	Setpoint 1	4	
13 – 14	26 - 29	Setpoint 2	4	
15 - 16	30 - 33	Flow Rate (weight /second) 4	
17 - 19	34 - 39	Unassigned	6	



WORD	BYTE	REGISTER USAGE	SIZE(BYTES)	SCALE
20	40 - 41	Status Word 0	2	Scale 2
21	42 - 43	Status Word 1	2	
22	44 - 45	Status Word 2	2	
23 - 24	46 - 49	Unassigned	4	
25 - 26	50 - 53	Gross Weight	4	
27 - 28	54 - 57	Tare Weight	4	
29 - 30	58 - 61	Net Weight	4	
31 - 32	62 - 65	Setpoint 1	4	
33 - 34	66 - 69	Setpoint 2	4	
35 - 36	70 - 73	Flow Rate (weight /second) 4	
37 - 39	74 - 79	Unassigned	6	
40	80 - 81	Status Word 0	2	Scale 3
41	82 - 83	Status Word 1	2	
42	84 - 85	Status Word 2	2	
43 - 44	86 - 89	Unassigned	4	
45 - 46	90 - 93	Gross Weight	4	
47 - 48	94 - 97	Tare Weight	4	
49 - 50	98 – 101	Net Weight	4	
51 - 52	102 - 105	Setpoint 1	4	
53 - 54	106 - 109	Setpoint 2	4	
55 - 56	110 - 113	Flow Rate (weight /second) 4	
57 - 59	114 - 119	Unassigned	6	



WORD	BYTE	REGISTER USAGE	SIZE(BYTES)	SCALE
60	120 - 121	Status Word 0	2	Scale 4
61	122 - 123	Status Word 1	2	
62	124 - 125	Status Word 2	2	
63 - 64	126 - 129	Unassigned	4	
65 - 66	130 - 133	Gross Weight	4	
67 - 68	134 - 137	Tare Weight	4	
69 - 70	138 - 141	Net Weight	4	
71 - 72	142 - 145	Setpoint 1	4	
73 - 74	146 - 149	Setpoint 2	4	
75 - 76	150 - 153	Flow Rate (weight /second) 4	
77 - 79	154 - 159	Unassigned	6	



E. Status/Command Word Bit Usage

STATUS / COMMAND WORD 0

bit	Usage
0	Scale ID bits 0, 1, 2
1	Scale 1 = 001, Scale 2 = 010, Scale 3 = 011, Scale 4 = 100
2	
3	motion
4	over capacity gross weight = scale capacity
5	within 2% capacity
6	Enable Tare
7	Disable Tare
8	Ib units
9	kg units
10	ton units
11	tonne units
12	
13	
14	Weight conversion, text to numeric (bits 14 and 15)
15	01 = 32 bit floating point
	10 = 32 bit integer
	11 = 16 bit integer



STATUS / COMMAND WORD 1

bit	Usage
0	Decimal Point Location bits 0, 1, 2
1	000 * 1.0; 001 * 0.1; 010 * 0.01; 011 * 0.001; 100 * 0.0001
2	
3	Load Tare Command
4	Auto Tare Command
5	Load Setpoint 1
6	Load Setpoint 2
7	Zero Scale Command
8	Load Cell Status bits 8, 9, 10, 11, 12
9	All Good = 0
10	Defective Cell = Cell Number Binary
11	
12	
13	
14	Print Command
15	Веер

STATUS / COMMAND WORD 2

bit Usage

- 0 Display Message Command / Operator Acknowledge
- 1 Scale weight at or above Maximum weight
- 2 Scale weight at or below Minimum weight
- 3 15 Unused



SCALE IDWORD 0BITS 0,1,2Command:Changes Instrument display to applicable scale.Status:Value is the scale id if the scale is selected, from instrument
keyboard or Fieldbus, else the value is zero.

MOTION WORD 0 BIT 3

Command: Not applicable.

Status: Indicates that the scale senses motion.

OVER CAPACITY WORD 0 BIT 4

Command: Not applicable.

Status: Indicates that the scale is at 105% of capacity. If this condition is true the gross weight is sent to the Fieldbus as the scale capacity.

WITHIN 2% CAPACITY WORD 0 BIT 5

Command: Not applicable.

Status: Scale is within a range of +/- 2% of capacity and zero.

ENABLE TARE WORD 0 BIT 6

Command:Enable keyboard tare or auto tare weight.Status:Tare weight enabled.

DISABLE TARE WORD 0 BIT 7

Command:Disable keyboard tare and auto tare weight.Status:Tare weight disabled.

LB WEIGHT UNITS WORD 0 BIT 8

- Command: Switch scale to lb units.
- Status: Scale is indicating in lb units.



KG WEIG	HT UNITS	WORD 0	BIT 9	
Command:	Switch scale to k	kg units.		
Status:	Scale is indicating in kg units.			
TON WEIG	GHT UNITS	WORD 0	BIT 10	
•		.,		

- Command: Switch scale to ton units.
- Status: Scale is indicating in ton units.

TONNE WEIGHT UNITS WORD 0 BIT 11

- Command: Switch scale to tonne units.
- Status: Scale is indicating in tonne units.

DECIMAL LOCATION WORD 1 BITS 0,1,2

- Command: Used in integer to float weight conversions.
- Status: Indicates location of decimal point in weight data.

LOAD TARE WORD 1 BIT 3

- Command: Load tare from tare memory address.
- Status: Switches to 1 after command is executed and returns to 0 when command is cleared.

AUTO TARE WORD 1 BIT 4

Command: Take current scale gross weight as tare value.

Status: Switches to 1 after command is executed and returns to 0 when command is cleared.

LOAD SETPOINT 1 WORD 1 BIT 5

Command: Load setpoint 1 for this scale.

Status: Switches to 1 when command is executed returns to zero when command is cleared.



LOAD SETPOINT 2 WORD 1 BIT 6

Command: Load setpoint 2 for this scale.

Status: Switches to 1 when command is executed returns to zero when command is cleared.

LOAD CELL STATUS WORD 1 BITS 8,9,10,11,12

Command: Not applicable.

Status: All cells are when the value is zero, else data indicates the number of the failing or failed cell.

PRINT COMMAND: WORD 1 BIT 14

- Command: Print scale ticket
- Status: Switches to 1 when the command is recognized and resets after the print cycle is complete and the command bit is reset.

BEEP WORD 1 BIT 15

Command: Sound Instrument audible alarm.

Status: Switches to 1 when command is executed, resets to 0 after the command bit is reset.

DISPLAY MESSAGE WORD 2 BIT 0

- Command: Display message on Instrument display. Message loaded from display memory 1 to 3 lines.
- Status: Switches to 1 when the command is received and the message is displayed.

When scale operator operates any key, the message and bit are cleared.

SCALE ABOVE MAXIMUM WEIGHT WORD 2 BIT 1

Command: Not applicable.

Status: Bit is set when scale weight is at or above the programmed value.



SCALE BELOW MINIMUM WEIGHT WORD 2 BIT 2

Command: Not applicable.

Status: Bit is set when scale weight is at or below programmed value.

Appendix II: Data Output

A. Remote Display Output

Data Format

<\$TX><4><0><\$P/-><XXXXXX><ETX >

NOTES:

- 1. Characters denoted by X are characters 0-9.
- 2. Leading zeroes are suppressed.
- Polarity indication for a positive value is a space (SP).
 Negative values are not transmitted.
- 4. Identifier code <4><0> = Gross weight.
 - Transmission is Gross Only.
- 5. Transmission for the **DEMAND Mode** occurs when a carriage return **(CR) Hex 0D** is received.

B. Configure Output

FAIRBANKS DATA FORMAT

<STX><A><C><GGGGGGG><TTTTTT><CR>

NOTES:

- 1. Characters denoted by **G** and **T** are characters 0-9.
- 2. Leading zeroes are suppressed.
- 3. Gross Weight Data = G Tare Weight Data = T

Status Code (Word) A

Bit #	X00	X0	X	X.X	X.XX	X.XXX	X.XXXX	X.XXXXX
0	0	1	0	1	0	1	0	1
1	0	0	1	1	0	0	1	1
2	0	0	0	0	1	1	1	1



FAIRBANKS DATA FORMAT

Increment Size

Bit #	Count By 1	Count by 2	Count by 5
3	1	0	1
4	0	1	1
5		Always Logic 1	
6		Always Logic 0	
7		Parity Bit	

Status Code (Word) B

Bit #			Description		
0		Gross = 0		Net = 1	
1	Positive = 0			Negative = 1	
2		In Range = 0		Overcapacity = 1	
3		No Motion = 0		Motion = 1	
4		Lb = 0		Kg = 1	
5		Always Logic 1			
6		Normal = 0		Power Up = 1	
7		Parity Bit			

Status Code (Word) C

Bit #	Description						
0	Always Logic = 0						
1	Always Logic = 0						
2	Always Logic = 0						
3	Normal = 0		Print Switch Pushed = 1				
4	Always Logic = 0						
5	Always Logic = 0						
6	Normal = 0		Keyboard Tare = 1				
7	Parity Bit						



TOLEDO DATA FORMAT

<STX><A><C><GGGGGGG<<TTTTTT><CR>

NOTES:

- 1. Characters denoted by **G** and **T** are **Characters 0-9**.
- 2. Leading zeroes are **not suppressed**.
- 3. Gross Weight data = G
- Tare Weight data = T

Status Code (Word) A

Bit #	X00	X0	X	X.X	X.XX	X.XXX	X.XXXX	X.XXXXX
0	0	1	0	1	0	1	0	1
1	0	0	1	1	0	0	1	1
2	0	0	0	0	1	1	1	1

Increment Size

Bit #	Count By 1	Count by 2	Count by 5
3	1	0	1
4	0	1	1
5		Always Logic 1	
6		Always Logic 0	
7		Parity Bit	



TOLEDO DATA FORMAT

Status Code (Word) B

Bit #	Description						
0	Gross = 0		Net = 1				
1	Positive = 0		Negative = 1				
2	In Range = 0		Overcapacity = 1				
3	No Motion = 0		Motion = 1				
4	Lb = 0		Kg = 1				
5	Always Logic = 0						
6	Normal = 0		Power Up = 1				
7	Parity Bit						

Status Code (Word) C

Bit #		Descriptio	n
0	Always Logic = 0		
1	Always Logic = 0		
2	Always Logic = 0		
3	Normal = 0		Print Switched Pushed = 1
4	Always Logic = 0		
5	Always Logic = 1		
6	Normal = 0		Keyboard Tare = 1
7	Parity Bit		



CARDINAL 738 CONTINUOUS SCOREBOARD DATA FORMAT <CR><P><WWWWW><M><SP><U><SP><G><SP><SP><ETX>

NOTES:

W = Displayed weight
 P = Polarity
 + = Positive weight
 - = Negative weight
 U = Units
 lb = pounds
 kg = kilograms
 M = Motion or O = Overload
 G = Gross; N = Net
 SP = Space

 Leading zeros are not suppressed.

WEIGHTRONIX DATA FORMAT

< ><M><WWWWW>< ><U><CR><LF>

NOTES:

- 1. <> = Space M = Mode G =Gross T=Tare N=Net W = Displayed weight U = Units m = Motion o = Overload
- 2. Leading zeros are suppressed.



CONDEC CONTINUOUS DATA FORMAT

<STX><SP><SP><WWWWW><U><G><M><CR><LF>

NOTES:

 P = Polarity space = positive weight

 - = negative weight
 W = Displayed weight
 U = Units
 L = pounds
 K = kilograms
 G = Gross; N = Net
 M = Motion

 Leading zeros are suppressed.

Appendix III: SMA Protocol

A. Standard Scale Response Message

Most of the host commands are responded to in the following message format. The only host commands that do not are the:

Diagnostic, ABout and INformation commands

<LF> <s> <r> <n> <m> <f> <xxxxxx.xxx> <uuu> <CR>

where:	<lf></lf>	Start of respo	nse message
	<\$>	scale status 'Z' 'O' 'U' 'E' 'I' 'T' <space></space>	definition / example Center of Zero <xxxxxx.xxx>= 0.000 Over Capacity <xxxxx.xxx>= +weight Under Capacity <xxxxx.xxx>= -weight Zero Error (clears when condition clears) Initial-Zero Error (if used, this error is maintained until zero condition is cleared) Tare Error (clears after being read) None of the above conditions Note: For 'E', 'I', 'T' error conditions <xxxxxx.xxx>= (center dashes) and 'Z', 'O', 'U' are overridden.</xxxxxx.xxx></xxxxx.xxx></xxxxx.xxx></xxxxxx.xxx>
	<r></r>	range	('1', '2', '3', etc.) always '1' for single range
	<n></n>	gross/net statu 'G' 'T' 'N' 'g' 'n'	us Gross normal weight Tare weight (in response to 'M' command) Net normal weight gross weight in high-resolution net weight in high-resolution
	<m></m>	motion status 'M' <space></space>	scale in Motion scale not in Motion
	<f></f>	future	reserved for future or custom use
<x></x>	xxxxx.xxx> <uuu> <cr></cr></uuu>	weight data Unit of Measu End of respon	



B. Examples

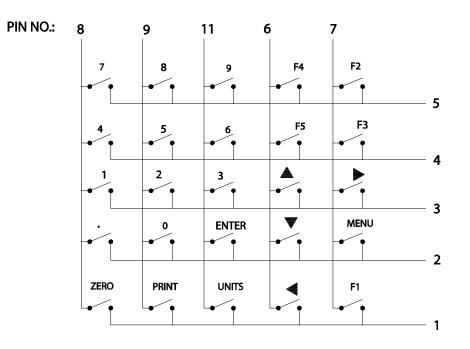
Command

<LF>W<CR> <LF>W<CR> <LF>W<CR> <LF>H<CR> <LF>H<CR> <LF>Z<CR> <LF>Z<CR>

Response	
<lf> <_> <1> <g> <_> <> <</g></lf>	5.025> <lb_> <cr></cr></lb_>
<lf> <_> <1> <n> <_> <_> <</n></lf>	100000> <lb_> <cr></cr></lb_>
<lf> <_> <2> <g> <m> <_> <</m></g></lf>	8:08.5> <l o=""> <cr></cr></l>
<lf> <_> <1> <g> <_> <> <</g></lf>	5.0025> <lb_> <cr></cr></lb_>
<lf> <z> <1> <g> <_> <_> <</g></z></lf>	0.000> <lb_> <cr></cr></lb_>
<lf> <_> <1> <g> <_> <_> <</g></lf>	7.025> <kg_> <cr></cr></kg_>
<lf> <_> <1> <g> <m> <_> <</m></g></lf>	7.650> <kg_> <cr></cr></kg_>
0 0 0	-
<lf> <_> <1> <g> <_> <_> <</g></lf>	7.650> <kg_> <cr></cr></kg_>

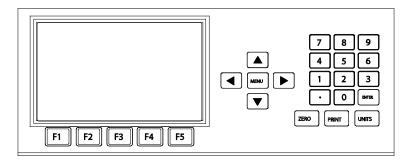
The scale will repeat weight until next command is received.

Appendix IV: Connections and Cables



INSERT KEY IN PIN 10 NO TRACE CONNECTION ON PINS 10 AND 12

SCHEMATIC DIAGRAM

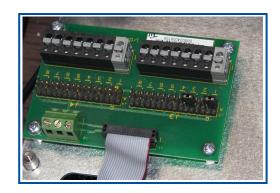


30746 KEYBOARD, 2550 INSTRUMENT

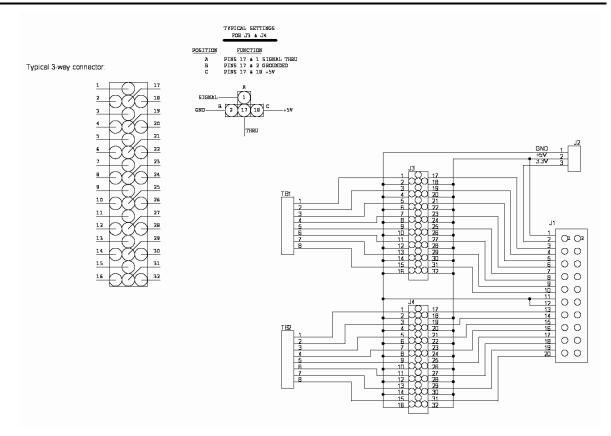
Appendix V: Remote Switches

Follow these steps to setup the Remote Switches.

- 1. In the Digital I/O Kit (**30359**), Connect **J2** of Multi-function Board to **J1** on the Remote I/O Board (**26472**) using Cable (**27053**).
- 2. Press the **MENU** button.
- 3. Open the **CONFIGURATION MENU**.
- 4. Press the **PAGE FORWARD** button twice.
- 5. Press the **REMOTE SWITCHES** option.
- 6. Open and select **YES** to the following Switches.
 - 1. REMOTE ZERO TB1-1.
 - a. REMOTE TARE TB1-2.
 - b. REMOTE PRINT TB1-8.



NOTE: The second wire connects to J2-1.



Appendix VI: Remote Serial Communication Commands

COMMAND	DESCRIPTION
Α	<u>A</u> uto Tare Active scale
G	Turn Traffic Light <u>G</u> reen (Manual Mode only)
LA	Change Traffic Light to Automatic mode
LM	Change Traffic <u>L</u> ight to Manual mode
R	Turn Traffic Light <u>R</u> ed (Manual Mode only)
S#	Change Active <u>S</u> cale (where # = scale number)
Тххххх	Set <u>T</u> are on Active scale (where XXXXX = tare weight value required)
T#,xxxxx	<u>T</u> are entry for a specific scale (where # = scale number, and where XXXXX = tare weight value required)
U#	Toggle <u>U</u> nits on a scale (where \mathbf{x} = scale number)
u	Toggle All Scales <u>U</u> nits
U	Toggle <u>U</u> nits on Active scale
Z#	<u>Z</u> ero one scale (where # = scale number)
z	<u>Z</u> ero all scales
Z	Zero Active scale
Р	Print Active scale
W	Demand request for a <u>W</u> eight output on the Active scale

Appendix VII: Formatable Data Fields

FIELDS and their DATA LENGTHS

SCALE TICKET: TICKET NUMBER	Twenty-four (24) characters
<ticket no="">: <ticket#></ticket#></ticket>	Six (6) characters
GROSS LABEL: GROSS	Five (5) characters
<gross wt="">: <gross></gross></gross>	Six (6) characters
<gross units="">: Ib GR</gross>	Two (2) characters
DUAL UNITS GROSS LABEL:P GROSS	
<pre><dual gross="" units="" wt="">: <dual gross="" units=""></dual></dual></pre>	
<dual gross="" units="">: <ib gr<="" th=""><th></th></ib></dual>	
TARE LABEL: TARE	Four (4) characters
<tare wt="">: <tare></tare></tare>	Six (6) Characters
<tare units="">: Ib TA</tare>	Two (2) characters
DUAL UNITS TARE LABEL: TARE	
DUAL UNITS TARE WT>: <dual tare="" units=""></dual>	
<dual tare="" units="">: Ib TA</dual>	
NET LABEL: NET	Three (3) characters
<net wt="">: <net></net></net>	Six (6) characters
<net units="">: Ib NT</net>	Two (2) characters
DUAL UNITS NTET LABEL: NET	
<dual net="" units="" wt="">: <dual net="" units=""></dual></dual>	
<dual net="" units="">: Ib GR</dual>	
INBOUND LABEL: INBOUND	Seven (7) characters
<inbound wt="">: <inbound></inbound></inbound>	Six (6) characters
<inbound units="">: Ib GR</inbound>	Six (6) characters
<dual inbound="" units="" wt="">: <dual inbound="" units=""></dual></dual>	
<dual gross="" units="">: <ib gr=""></ib></dual>	
<date>: <date></date></date>	Ten (10) characters
<time>: <time></time></time>	Eight (8) characters
<scale id="">: <scale id=""></scale></scale>	Eleven (11) characters
<loop id="" label="">: LOOP ID</loop>	Twenty (20) characters
<loop id="">: <loop id=""></loop></loop>	Sixteen (16) characters
<date in="">: <date in=""></date></date>	Ten (10) characters
<time in="">: <time in=""></time></time>	Eight (8) characters
<scale id="" in="">: <scale id="" in=""></scale></scale>	Eleven (11) characters
PRODUCT LABEL: LABEL	Twenty-four (24) characters
<product id="">: <product id=""></product></product>	Sixteen (16) characters
<conversion label="">: Conversion Name</conversion>	Sixteen (16) characters
<conversion>: <conversion></conversion></conversion>	Seven (7) characters
<conversion 2="" label="">: Conversion 2 Name</conversion>	
<conversion 2="">: Conversion 2</conversion>	



FIELDS and their DATA LENGTHS

<product total="" wt="">: <prod tot="" wt=""></prod></product>	Six (6) characters
<product total="" units="">: <prod tot="" units=""></prod></product>	Two (2) characters
<dual prod="" tot="" units="" wt="">: < Dual Units Prod Tot Wt></dual>	
DUAL UNITS PROD TOT UNITS>: < Dual Units Prod Tot	
Un>	
	Twenty-four (24) characters
CUSTOMER LABEL: CUSTOMER	(caption is editable from ticket
	format)
<customer id="">: <customer id=""></customer></customer>	Sixteen (16) characters
<customer 1="" 2="" 3="" 4="" line="">: <customer 1="" 2="" 3="" 4="" line=""></customer></customer>	Forty (40) characters
	Twenty-four (24) characters
CUSTOMER TOTAL LABEL: CUSTOMER TOTAL	(caption is editable from ticket
	format)
<customer total="" wt="">: <cust tot="" wt=""></cust></customer>	Six (6) characters
<customer total="" units="">: <cust tot="" units=""></cust></customer>	Two (2) characters
<dual cust="" tot="" units="" wt="">: <dual cust="" tot="" units="" wt=""></dual></dual>	
<dual cust="" tot="" units="">: <dual cust="" th="" tot<="" units=""><th></th></dual></dual>	
Un>	
	Twenty-four (24) characters
VEHICLE TYPE: VEHICLE TYPE	(caption is editable from ticket
	format)
<vehicle description="">: <vehicle description=""></vehicle></vehicle>	Thirty-two (32) characters
<location id="">: <location id=""></location></location>	Fifteen (15) characters
<location address="" city="" name="" nmr="" phone="" state="">:</location>	Sixty-four (64) characters
<location address="" city="" name="" nbr="" phone="" state=""></location>	
<location nbr="" phone="">: <location nbr="" phone=""></location></location>	Twenty (20) characters
<pre><prompt1 label="" prompt10="" thru="">: PROMPT 1</prompt1></pre>	Twenty (20) characters
thru PROMPT 10	
<prompt1 prompt10="" thru="">: <prompt 1="" 10="" prompt="" thru=""></prompt></prompt1>	
ALL TEXT FIELDS	Twenty-four (24) characters
DUPLICATE COPY LABEL: (DUPLICATE COPY)	
TEXT 1: TEXT 1 thru TEXT 20: TEXT 20	
IMAGE 1: IMAGE 1 and IMAGE 2: IMAGE 2	

Appendix VIII: Creating a Custom Continuous RS-232 Output

These instructions will provide details on the creation of a custom continuous RS-232 output with a FB2560 Instrument using the Instruments touch panel keys and touch screen interface.

The steps necessary to create a custom continuous output are:

- 1. Determine which com port is open, unused, and available for use.
- 2. Creating the desired custom output.
- 3. Verifying the output by observing it in a terminal program, such as HyperTerminal or PuTTY.

Equipment Required:

- 1. One FB2560 Instrument.
- 2. Qwerty Auxiliary USB keyboard.
- 3. Tablet or Laptop equipped with a serial com port.
- 4. Cable to connect the FB2560 com port to the Tablet or Laptop.
- 5. Terminal program such as Windows HyperTerminal or PuTTY.

NOTE: The FB2560 Instrument should be capable of displaying stable weight values.

The following instructions will detail how to create two (2) different custom continuous outputs via a RS-232 serial output connection.

- A. The first one will start with a text field stating, "Entrance Scale", followed by the Gross Weight, Units Token, Mode Token, and Scale Status.
- B. The second one will start with a text field stating, "Exit Scale", followed by the Gross Weight, Units Token, Mode Token, Tare Weight, Units Token, Mode Token, Net Weight, Units Token, Mode Token, and Scale Status.



A: Entrance Scale

Procedure Instructions:

- A. "Entrance Scale", followed by the Gross Weight, Units Token, Mode Token, and Scale Status.
- 1. Determine which com port is open, unused, and available for use.
- 2. At the Instruments touch keypad, press the MENU key, then select LOGIN. If the password is known, type it and select LOGIN. If the password is not known, type either "2", or "25600652", or "sknabriaf", then select LOGIN.
- 3. Select CONFIGURATION MENU, then PAGE FORWARD and select CONFIGURE OUTPUTS.

НОМЕ	ВАСК: НОМЕ		Configuration Menu
AUDIT TRAIL	Programmable Prompts		
OPERATOR MENU	Entry Sequence Pr	ompts	
CONFIGURATION MENU	Format Tickets		
SERVICE MENU	Remote Display		
EXPANSION CARDS	Configure Outputs		
RETURN TO WEIGHING	Loopback Test		
	Vehicle Image Typ	e	
	PAGE BACK		PAGE FORWARD

4. Select **com port** to be used. This instruction will use COM 1.

НОМЕ	BACK: CONFIGURATION MENU	Configure Outputs
AUDIT TRAIL	Edit RS485 ID	
OPERATOR MENU	IP Setup	
CONFIGURATION MENU	Configure COM1	
SERVICE MENU	Configure COM2	
EXPANSION CARDS	Configure COM3	
RETURN TO WEIGHING	Configure COM4	



5. Select **SETTINGS**.

НОМЕ	BACK: CONFIGURE OUTPUTS	Configure COM1
AUDIT TRAIL	Settings	
OPERATOR MENU	Load	
CONFIGURATION MENU	Tokens	
SERVICE MENU	Status Codes	
EXPANSION CARDS	Weights	
RETURN TO WEIGHING		

6. Select **MODE**.

НОМЕ	BACK: CONFIGURE COM1		COM1 -	Settings
AUDIT TRAIL	Mode:	OFF	< $$	
OPERATOR MENU	Baud/Parity:	9600	None	
CONFIGURATION MENU	Data/Stop Bits:	8	1	
SERVICE MENU	■ Checksum			
EXPANSION CARDS	■ Delimited			
RETURN TO WEIGHING	■ Include Legends			
	SAVE CHANGES			

7. Select CONTINUOUS.

НОМЕ	BACK: CONFIGURE COM1	COM1 - Settings
AUDIT TRAIL	Mode:	CANCEL
OPERATOR MENU	OFF	
CONFIGURATION MENU	Continuous	
SERVICE MENU	Demand	
EXPANSION CARDS	Auto	
RETURN TO WEIGHING	Network (Continuous)	
	Network (Auto)	



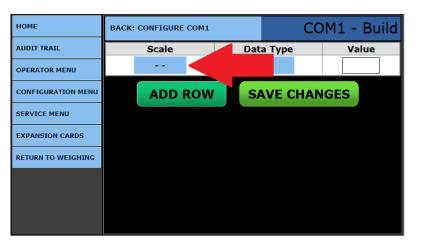
Set the desired **Baud rate**, **Parity**, **Data bit length**, and **Stop bit length**. When completed, select **SAVE CHANGES**.

номе	BACK: CONFIGURE COM1	(COM1 -	Settings
AUDIT TRAIL	Mode:	Continuous	;	
OPERATOR MENU	Baud/Parity:	9600	None	
CONFIGURATION MENU	Data/Stop Bits:	8	1	
SERVICE MENU	Checksum			
EXPANSION CARDS	Delimited			
RETURN TO WEIGHING	Include Legends			
	SAVE CHANGES			

8. Select **BUILD**.

НОМЕ	BACK: CONFIGURE OUTPUTS	Configure COM1
AUDIT TRAIL	Settings	
OPERATOR MENU	Load	
CONFIGURATION MENU	Build	
SERVICE MENU	Tokens	
EXPANSION CARDS	Status Codes	
RETURN TO WEIGHING	Weights	

9. Select **SCALE**.





10. Selecting "- -" will output the total weight of all scales if **SCALE SUMMING** is set to **YES**.

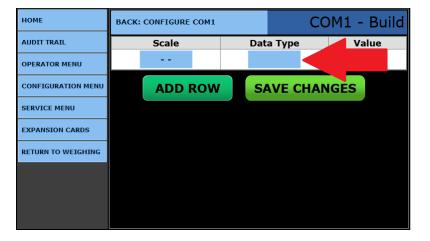
If **SCALE SUMMING** is set to **NO**, it will output the weight of the scale that is selected at the weigh screen.

НОМЕ	BACK: CONFIGURE COM1	COM1 - Build
AUDIT TRAIL	Scale:	CANCEL
OPERATOR MENU		
CONFIGURATION MENU	Scale ID 1	
SERVICE MENU	Scale ID 2	
EXPANSION CARDS	Scale ID 3	
RETURN TO WEIGHING		
<u></u>	1	

Selecting an Individual scale ID number will only output for that scale selection.

(SCALE SUMMING is in the SERVICE MENU, SERVICE OPTIONS, OPERATING MODE.)

11. Select **DATA TYPE**.

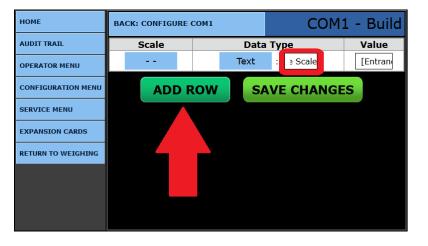


12. Select **TEXT**.

номе	BACK: CONFIGURE COM1	COM1 - Build
AUDIT TRAIL	Data Type:	CANCEL
OPERATOR MENU	Text	Units Token
CONFIGURATION MENU	Mode Token	Scale Status
SERVICE MENU	Load Cell Status	Status Byte A
EXPANSION CARDS	Status Byte B	Status Byte C
RETURN TO WEIGHING	Gross Weight Tare Weight	
	Net Weight	Displayed Weight
	<< Remove >>	



13. In the text box, type "Entrance Scale". Then, select ADD ROW.



14. Select the second row DATA TYPE.

номе

AUDIT TRAIL	Scale	Da	ata Type	Value
OPERATOR MENU		Text	t : Entran	[Entran
CONFIGURATION MENU				
SERVICE MENU	ADD R	Row	SAVE CHAN	GES
EXPANSION CARDS				
номе	BACK: CONFIGURE	COM1	CO	M1 - Build
AUDIT TRAIL		Data Type:		CANCEL
OPERATOR MENU	Text		Units Token	
CONFIGURATION MENU	Mode Token		Scale Status	
SERVICE MENU	Load Cell Status		Status Byte A	
EXPANSION CARDS	Status Byte B		Status Byte C	
RETURN TO WEIGHING	Gross Weight		Tare Weight	
	Net Weight		Displayed Weigh	nt
	<< Remove >>			

BACK: CONFIGURE COM1

15. Select GROSS WEIGHT.

COM1 - Build



16. In similar fashion, continue to build the output string and add the UNITS TOKEN, followed by the MODE TOKEN, followed by the SCALE STATUS.

НОМЕ	BACK: CONFIGURE	СОМ1	COM	L - Build
AUDIT TRAIL	Scale	Data Ty	pe	Value
OPERATOR MENU		Text :	Entran	[Entran
CONFIGURATION MENU		Gross We	ight	<g></g>
SERVICE MENU	ADD R	ROW SAVI	E CHANGE	S
EXPANSION CARDS				
RETURN TO WEIGHING				

17. When the build is complete, it will match this example. Select SAVE CHANGES, then RETURN TO WEIGHING.

> The continuous output only outputs when the FB2560 is in the Weigh screen.

НОМЕ	BACK: CONFIGURE	сом1 СО	M1 - Build
AUDIT TRAIL	Scale	Data Type	Value
OPERATOR MENU		Text : Entran	[Entran
CONFIGURATION MENU		Gross Weight	<g></g>
SERVICE MENU		Units Token	<u></u>
EXPANSION CARDS		Mode Token	<m></m>
RETURN TO WEIGHING		Scale Status	<s></s>
RETURN TO WEIGHING	ADD R	SAVE CHAN	GES

Verifying the output by observing it in a terminal program such as HyperTerminal or PuTTY.

18. Connecting a Tablet or Laptop to the configured com port and viewing the continuous output when the weight is stable proves the output is working and is outputting the configured data items in the order they were placed.

💽 test - HyperTerminal	_	×
<u>File E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> ransfer <u>H</u> elp		
© Entrance Scale 192401bGR		
Connected 0:00:25 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print echo		



💽 test - HyperTerminal					_	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> ransfer <u>H</u> elp						
다 🛎 📨 💲 🗈 🎦						
Entrance Scale 192401bGR	MODE UNITS GROSS V					^
Connected 0:00:25 Auto detect 9600 8-N	-1 SCROLL	CAPS NUM	Capture	Print echo		

19. The **SCALE STATUS** field is controlled by motion on the scale that exceeds the Motion Band setting. Below is the example showing the "M" has been added to the continuous output.

This indicates that there is motion on the scale.

The output will continue continuously whether the scale weight is stable or unstable.

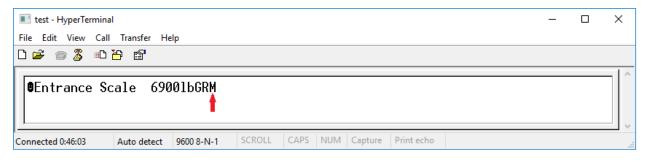
However, if the customer is using the output to process a transaction, their end MUST look for a stable weight before proceeding. If they do not, the truck might not yet be fully on the scale and stopped when their process grabs the output and processes a transaction that is in error.

B: Exit Scale

Procedure Instructions:

B. "Exit Scale", followed by the Gross Weight, Units Token, Tare Weight, Units Token, Net Weight, Units Token, and Scale Status.

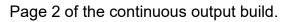
1. As before, build the following output by either removing the previous com 1 build, or by using a different com port.





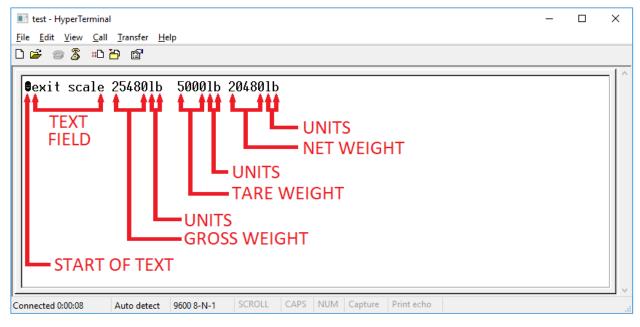
НОМЕ	BACK: CONFIGURE	сом1 СОМ	l1 - Build
AUDIT TRAIL	Scale	Data Type	Value
OPERATOR MENU		Text : exit sc	[exit sca
CONFIGURATION MENU		Gross Weight	<g></g>
RETURN TO WEIGHING		Units Token	<u></u>
		Tare Weight	<t></t>
		Units Token	<u></u>
		Net Weight	<n></n>
	ADD R	SAVE CHANG	ES
		p,	AGE FORWARD

Page 1 of the continuous output build.



НОМЕ	BACK: CONFIGURE COM		OM1 - Build
AUDIT TRAIL	Scale	Data Type	Value
OPERATOR MENU		Units Token	<u></u>
CONFIGURATION MENU		Scale Status	<\$>
RETURN TO WEIGHING			
	ADD ROU	SAVE CHA	NGES
	PAGE BACK		

Verifying the output by observing it in a terminal program such as HyperTerminal or PuTTY.





The **SCALE STATUS** field is controlled by motion on the scale that exceeds the Motion Band setting. Below is the example showing the "M" has been added to the continuous output.

This indicates that there is motion on the scale.

Est - HyperTerminal	_	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> ransfer <u>H</u> elp		
D 🚔 🍘 🏂 🗈 💾 🖆		
❷exit scale 337201b 50001b 287201bM		
Connected 0:50:56 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print echo		

The output will continue continuously whether the scale weight is stable or unstable. However, if the customer is using the output to process a transaction, their end MUST look for a stable weight before proceeding. If they do not, the truck might not yet be fully on the scale and stopped when their process grabs the output and processes a transaction that is in error.

TOKENS

The default characters for many items can be changed to suit particular requirements.

The preceding page detailed the STATUS was outputting an "M" to identify that the scale weight was not stable and was exceeding the **MOTION BAND** setting. The default for this feature is "M", and it can be changed to any typed character.

НОМЕ	BACK: CONFIGURE COM1			COM1 - Tokens	
AUDIT TRAIL	Poll:	C	R		
OPERATOR MENU	Start:	S	ГХ		
CONFIGURATION MENU	Stop:	CR			
RETURN TO WEIGHING	Block:	SPA	CE		
	Primary Units:	lb			
	Secondary Units:	kg			
	SAVE CHANGES				
				PAGE FORWARD	

NOTE:

The motion token is a single character entry.



НОМЕ	BACK: CONFIGURE COM1		COM1 - Tokens
AUDIT TRAIL		Mo	ode:
OPERATOR MENU	Gross:	GR	
CONFIGURATION MENU	Tare:	ТА	
RETURN TO WEIGHING	Net:	NT	
	Rem	ote C	ommands:
	Carriage Return		
	SAV	/E C	HANGES
	PAGE BACK		

НОМЕ	BACK: CONFIGURE COM1		COM1 - Tokens
AUDIT TRAIL		Sta	tus:
OPERATOR MENU	Motion:	М	
CONFIGURATION MENU	Capacity:	0	
RETURN TO WEIGHING	ОК:		
	Invalid:	I	
	SAV	E CI	HANGES
	PAGE BACK		PAGE FORWARD

Appendix IX: Setting Up Transaction Emails

IMPORTANT NOTE: Configuring the instrument to send email notifications will require a service technician. The instructions below will allow for the modification of existing transaction emails, but if new DAT notifications are needed contact your service provider."

BEFORE SETTING UP TRANSACTION EMAILS:

- 1. That notifications for Txns is set to **YES**
- 2. The content options must already be configured in the appropriate location

ONLY when a transaction is *fully complete*, is emailed to the recipient(s).

- Incomplete Transactions that are still pending are unsent.
- The last screen in this section shows that a camera image will be attached when the **Camera Images** are set to **YES**.
 - Capturing an image of a license plate, a truck or a person's face are examples how this may be useful.

A. To Configure Email Contents

- 1. Press the **ALT + HOME** keys.
- 2. Press LOGIN, then enter the Write Customer or the Service Password.
- 3. Press the **LOGIN** button.
- 4. Press the **CONFIGURATION MENU**.
- 5. Press the **REPORTS**.
- 6. Press the TRANSACTION EMAILS.
- 7. Selecting **YES** or **NO** to any of the following options includes it within the email report:
 - Send as attachment offers the choices **NO**, **CSV**, and **TXT**. Selecting **CSV** or **TXT** results in an email attachment of the transaction in that file type.



	Send as Attachment	Location Name
Page 1	Location ID	Location Phone
	 Location City/State 	Location Address
	Location Contact	Completion Time
Page 2	• Ticket	• Loop ID
	Completion Date	• Usage
	• Gross	Accum–Accumulate the total
Page 3	• Units	• Net
	• Tare	• Scale
Daga 4	• Tare ID	Customer ID
Page 4	Product ID	• Any ID1 thru Any ID10
	• Any ID 10	• Void Time
Page 5	• Scale In	• Date IN
	• Time In	• Void Date
Dogo 6	• History	• Exported
Page 6	• Camera1 Image	Camera2 Image



FB2560 DAT Series

DRIVER ACCESS TERMINAL

Operators Manual Document 51445

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