

# FAIRBANKS<sup>®</sup>

## S C A L E S



### FBAS DRIVER ASSIST TERMINAL

#### AUTOMATED ON-SITE DRIVER WEIGH-IN/OUT

POWERED BY **MatreX**

Automate on-site truck driver interactions and free up site personnel with the FBAS Driver Assist Terminal powered by MatreX transaction software. Quickly build customized and automated cycles of operation for drivers to fit your business processes.

[fairbanks.com](http://fairbanks.com)

# FBAS DRIVER ASSIST TERMINAL

## AUTOMATED ON-SITE DRIVER WEIGH-IN/OUT

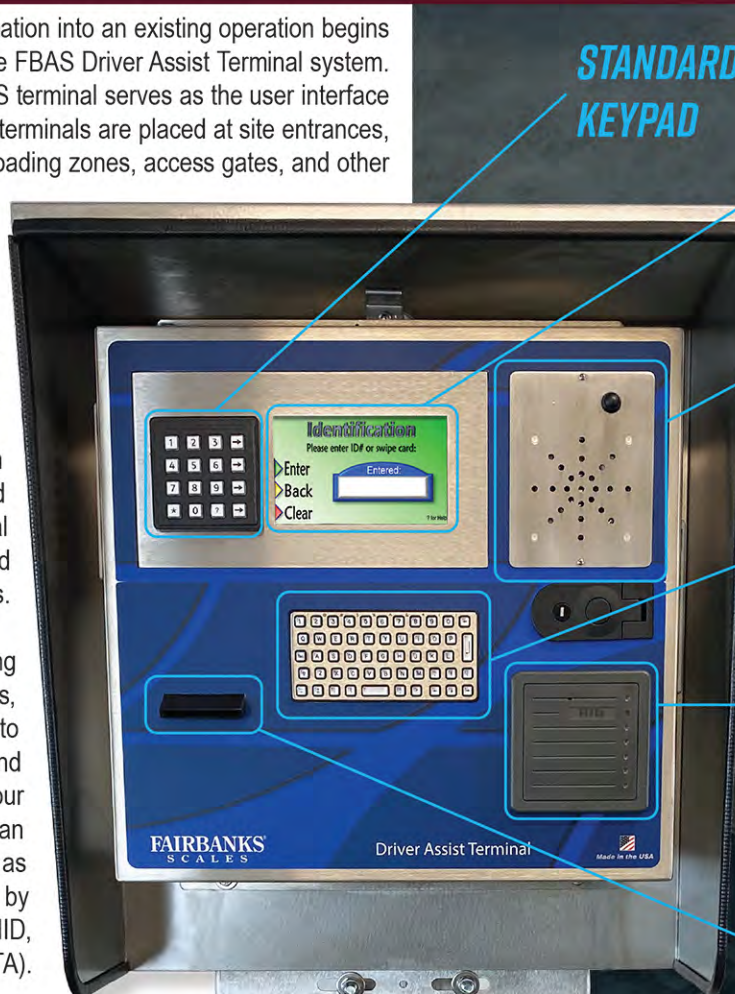
### DRIVER ASSIST TERMINAL

Successfully integrating automation into an existing operation begins with the installation of the FBAS Driver Assist Terminal system. Exceptionally robust, the FBAS terminal serves as the user interface for the individual driver. The terminals are placed at site entrances, truck scales, loading or unloading zones, access gates, and other areas as needed to automate truck driver interactions.

With our base system, automate driver information using the 7" display and illuminated keypad.

Accessorize as needed with optional: QWERTY keyboard for full character entry, thermal ticket printer, IP Intercom, and more as site grows.

Connect with existing infrastructure such as gates, traffic lights, loop detection to provide safe traffic patterns and vehicle positioning to keep your drivers focused. Vehicles can be identified by keypad, or as accessory, a touchless system by using RFID solutions such as HID, AWID, or Transcore (SeGo/ATA).



STANDARD NUMERIC  
KEYPAD

STANDARD 7"  
DISPLAY

IP INTERCOM  
SYSTEM ENABLED\*

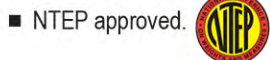
FULL QWERTY  
KEYBOARD\*

SHORT RANGE  
RFID READER\*

THERMAL TICKET  
PRINTER\*

### TOP DESIGN FEATURES

- Screen provides visual instructions and prompts the driver.
- Screen can be read at night or day, even in direct sunlight.
- Simplifies the driver keypad input for materials, sources/origins and destinations by utilizing four selection keys.
- **Remote monitoring** - allows anyone with access to the network to monitor the activity at any terminal on the network using a browser.
- **Remote diagnostics** - allows anyone with access to the network to run diagnostics for any terminal on the network using a browser.
- Sends email notifications for the following conditions: low paper, out of paper and paper jam.
- **HTTP IP cameras** - cameras can be installed to take one or more photos of the vehicle or driver during the transaction on certain events. The photos are stored with the transaction.



### KEY BENEFITS

- Process trucks quicker at the scale by eliminating "scale house socializing." Most operations see a 75% time savings increase processing trucks at unattended driver assist terminals versus at the "attended" scale house.
- **Time saver** - reduces truck processing time.
- **Reduce paper** - email the scale tickets to your customers.
- **Automated attendant** - reduces labor costs.
- User-friendly with visual multi-lingual prompts.
- Add an express lane for trusted and established accounts - or for your own trucks.
- Integrated security camera option to capture pictures of the transaction.
- **Improved efficiency** - transactions are stored into a centralized database for reporting purposes.

\*OPTIONAL ACCESSORIES SHOWN

## MATREX CONFIGURABLE SOFTWARE

**MatreX** is the flexible software solution that frees your operations team from repetitive driver management and reporting tasks. Easily configure and update users, customers, materials and more from any smart device connected to the internal network. Create automated reports and automatically drop them into automated emails or a network storage location.

**MatreX** consolidates all data into an easily accessible, internally hosted network location that can be connected from anywhere inside the internal intranet. Our database can be installed on existing Microsoft SQL architecture to leave database administration in your hands. And you can implement remote access with either Virtual Private Networks (VPN) or Zero Trust to provide user access from wherever the company's security allows.

**Weight Report**  
Created: 11/03/2023 4:57 PM CST  
Date Range: 10/1/2023 - 10/31/2023  
Status: Complete

Trans #	Date/Time	Location	Src/ Dest	Customer	Vehicle ID	Material Category	Material Class	Rate	Net Weight	Charge Amount
1278	10/30/2023 4:55 PM	Mountain Rocks	Boone	Bob's Hauling	1010	Gravel	Pea Gravel 1"	\$4.68 / 48 lb	40,100 lb	3909.75
1275	10/30/2023 3:26 PM	Mountain Rocks	Norris	Bob's Hauling	4587	Gravel	Pea Gravel 1"	\$4.68 / 48 lb	62,000 lb	6045.00
1274	10/30/2023 11:56 AM	Mountain Rocks	Tacoma	ADKINS	8889	Crushed Stone	1/4 Crushed Stone	\$46.00 / tn	41,900 lb	966.00
1273	10/30/2023 10:56 AM	Mountain Rocks	Boone	Rock N Road	15489	Crushed Stone	1/4 Crushed Stone	\$46.00 / tn	55,000 lb	1265.00

**View Transaction Detail**

Transaction #: 1278  
Start Date/Time: 10/31/2023 4:30 PM CST  
End Date/Time: 10/30/2023 4:55 PM CST  
Hauler: Bob's Hauling  
Vehicle: 1010  
Status: Completed

**Transfers:**

Location: Mountain Rocks  
Terminal: GEN4  
Terminal Start Time: 11/3/2023 4:30 PM CST  
Terminal End Time: 11/3/2023 4:30 PM CST  
ID Number: 99 (Cardless Number)  
Transfer ID: 0083231103163047  
Customer: Bob's Hauling  
Material: Pea Gravel 1"  
Category: Gravel  
Destination: Boone  
Gross Weight: 80,380 Pounds  
Tare Weight: 20,280 Pounds  
Net Weight: 40,100 Pounds

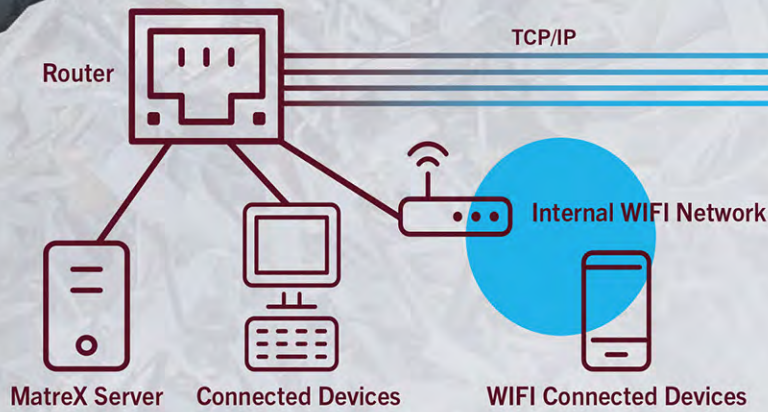
Name	Rate	Surcharge	Charges	Taxes	Total
Material Charges	\$4.68 / 48 lb	None	\$3,909.75	\$0.00	\$3,909.75
<b>Total Charges:</b>			<b>\$3,909.75</b>		
<b>Payment:</b>			<b>\$3,909.75</b>	Account	

Transactions grouped by material

Details of a completed transaction

## DRIVER ASSIST TERMINAL SYSTEM

Ethernet-based system that links the weigh in/out terminals and the processing system over a standard network including LAN, WAN, Intranet or VPN.



### COMPANY INTRANET

Remote Access: VPN or Zero Trust (if enabled)



# FBAS DRIVER ASSIST TERMINAL

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POWERED BY **MatreX**

WEIGHING SOLUTIONS FOR THE WORLD SINCE 1830

### TERMINAL SPECIFICATIONS

Display	7" diagonal, 640 x 480, color
Keypad	0-9, # and "?"
Enclosure	stainless steel
Enclosure rating	NEMA 4X
Serial communication	(6) RS232 ports
Operating temperature	-20° F to 110° F ambient outside temperature
Power	120 VAC, 3 amps
I/O	With Relay ACC - 4 dry contact inputs and 4 dry contact outputs
Internal heater	150 watt
Requires a scale instrument	Continuous RS232 or TCP/IP IEEE 802.3 Ethernet network
Requires a customer PC	see: <b>MATREX SOFTWARE HARDWARE REQUIREMENTS</b>
Approval	NTEP CC# 06-041
Options	Expandable Remote I/O 4 inputs 8 outputs Thermal Printer Connection to existing IP camera(s) IP Intercom RFID readers: HID® Promimity, TransCore® RFID Reader, AWID Proximity Remote weight display Traffic control configuration with IO control Traffic Lights

### DIMENSIONS



### MATREX SOFTWARE - HARDWARE REQUIREMENTS

#### Follow Recommended Hardware Per Installed OS / Otherwise:

- Recommended: CPU 2 GHz / Minimum: CPU 1 GHz (2) or more cores
- Recommended: 16 GB RAM / Minimum: 4 GB RAM
- Recommended: 160 GB (or larger) Hard drive / Minimum: 80 GB Hard drive
- Backup device (redundant from PC) File server on the network, external hard drive

#### PC Software: NO Home Editions on OS

- Operating System: Minimum OS:
  - Windows 8
  - Windows 7

- Recommended OS:
  - Windows 11 Pro\*
  - Windows 8 Pro\*
  - Windows 7 Pro\*
  - Windows Server 2012
  - Windows Server 2008 R2

\*Note that non-server editions will limit the number of simultaneous users to the MatreX application to only four.

- Minimum Database:
  - MS SQL Server Express 2012

- Recommended Database:
  - MS SQL Server Express 2019
  - MS SQL Server Express 2014

Note that any edition including SQL Express (included) can be used.

- Email capabilities require an existing SMTP email server. This could be an internal company server or the email server of an Internet Service Provider.

#### IIS - Internet Information Services (latest version)

- Internet Information Services (IIS) comes with the Windows Operating System. Selecting a supported OS ensures a compatible IIS.

#### FBAS & MatreX Open ports:

- 22 – SSH and SFTP
- 80, 8079 – HTTP messaging
- 6700- 6800, data sharing between terminals
- 5900: VNC Server (password protected)
- 6080,5901: Web socket proxies for SSH, VNC
- 3389 (Remote desktop for MatreX)
- Local NTP time server for network synced time.

#### UDP ports:

- 6700 - 6800 (data exchange and commands)
- 6630 - 6640 (remote access diagnostics)

#### Required Prerequisite Applications:

- .Net 3.5 framework (SQL Installer)
- SQL Server Express | Server Full
- SQL Server Studio for running SQL Queries
- IIS 7.5 or higher – OS dependent

Your Fairbanks Scales Authorized Representative is:

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**(800) 451-4107**

Call between 8:00 a.m. – 5:00 p.m. Central Time

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