FAIRBANKS SCALES ENGINEERING SPECIFICATIONS FOR:

Wireless Remote Weight Display with integrated traffic light

### 5.0” Wireless (RF) Remote Weight Display

### with integrated traffic light

# PART 1 – GENERAL

1. SCOPE. This section covers the requirements for a Wireless Remote Weight Display with integrated traffic light required at for placement at the truck scale.
	* 1. Acceptable Manufacturer. The Remote Weight Display furnished under this section shall be manufactured by Fairbanks Scales or equal ISO accredited manufacturer.
	1. GENERAL. Equipment furnished and installed under this section shall be assembled, calibrated and placed in proper operating condition in full conformity with wiring, specifications, engineering data, instructions and recommen­dations of the equipment manufacturer unless exceptions are noted by the Engineer.
		1. General Equipment Stipulations. The General Equipment Stipulations shall apply to all equipment furnished under this section.

# PART 2 – PRODUCTS

1. DISPLAY DESIGN. The Remote Weight Display with integrated traffic light shall be a Fairbanks Scales model 1605T RF or approved equivalent.
	* 1. The Remote Weight Display shall be able to communicate with scale instrument utilizing a wireless (RF) interface.
		2. The Remote Weight Display shall feature an intelligent auto learning function allowing it to determine the protocol of the information sent to it.
		3. The Remote Weight Display enclosure shall be a black powder coated steel enclosure.
		4. The Remote Weight Display shall carry a NEMA 3 rating for outdoor use.
	1. DISPLAY HARDWARE SPECIFICATIONS
		1. Power Supply. Unless otherwise specified, the power supply to the equipment will be a dedicated 20 amp 120 volt, single phase, 60 Hz. Where control voltages lower than the power supply voltage is required, suitable control power transformers shall be furnished.
		2. Remote Weight Displays shall have a cabinet size of 33.90” x 9.46”. The display shall include a self-contained wall mounting plate to not exceed 13”.
		3. The Remote Weight Display shall have a viewing distance of up to 300 feet.
		4. The Remote Weight Display shall have a NEMA 3 rated enclosure with a storage temperature of 0 degrees F to 150 degree F (-18 degrees C to 66 degree C).
		5. The Remote Weight Display shall include an LED weight character size of 5”.
		6. The Remote Weight Display shall feature 6 characters for weight.
		7. The Remote Weight Display shall feature LB and KG legends.
		8. The Remote Weight Display shall feature Gross and Net legends (GR-NT).
		9. The Remote Weight Display shall feature a 5” red “X” for “stop” functions and a 5” round green LED light for “go”.
		10. Operation of the integrated traffic light shall be controlled through RF interface from the scale instrument.
		11. The Remote Weight Display RF radio components are internal, and are factory preinstalled and wired.
	2. DISPLAY FUNCTIONS: The Remote Weight Display will be a device that mimics traffic signals and weight data from an instrument. The display will do no weighing by itself, but will simply show the weight of an instrument. The display will be capable of communicating wirelessly (RF) to a Fairbanks instrument featuring the companion RF modem.
		1. The display will automatically switch between red and green based on the information from the Fairbanks scale instrument.
		2. The display can be set to show pounds or kilograms in the legend.
		3. The display can be set to show Gross or Net weight in the legend.
		4. The display will be able to communicate wirelessly up to 300 feet indoors and up to 1000 feet outdoors in ideal line-of-sight conditions.

2-5 DISPLAY MOUNTING:

Remote displays shall be mounted on 8’ x 4-1/2” O.D. brushed aluminum poles. Poles shall include a pole, base, a cap, and drill in place anchor bolts.

# PART 3 – EXECUTION

1. INSTALLATION. The Displays shall be installed by an experienced, competent, and authorized representative of the manufacturer with at least 5 years of experience installing similar devices.
	1. MANUFACTURER’S FIELD SERVICES. Where scheduled in the equipment schedule section, an experienced, competent, and authorized representative of the manufacturer shall provide field services for equipment furnished under this section. Field services shall meet the requirements of Manufacturer's Field Services in the quality control section of customer’s specification.
	2. FIELD TESTING AND ACCEPTANCE. The authorized representative of the manufacturer shall provide the required scale certification for capacity and accuracy to the Engineer as required by the local Weights and Measures Authority any other applicable State or County agency.
	3. PERSONNEL TRAINING. An experienced, competent, and authorized representative of the manufacturer shall train the Owner's personnel in operating and maintaining the equipment specified in this section. The training provided shall meet the requirements specified in the quality control section of the customer’s specification. The number of training sessions and duration of each session shall be as scheduled in the equipment schedule section.

End of Section