



## SPECIFICATION SINGLE CHANNEL WEIGHT INDICATOR/TRANSMITTER

### 1.0 GENERAL

The weight indicator/transmitter shall be an Eagle Microsystems Model EI-1000S Single Channel Digital Weight Indicator/Transmitter.

### 1.1 WORK SPECIFIED ELSEWHERE

The weight indicator/transmitter shall be mounted to the wall with utilizing #8 mounting screws. Mounting hardware and installation labor shall be provided by others.

### 1.2 START UP / OPERATION

Start up, calibration and operation of the weight indicator/transmitter shall not require the services of the manufacturer. However, assistance shall be available from a factory trained, local representative, if required.

### 2.0 DESCRIPTION

The weight indicator/transmitter shall be a microprocessor-based instrument providing one (1) continuous digital display of various weight parameters of the scale utilized. The instrument shall provide as standard one (1) 4-20 mA<sub>dc</sub> output into 500 ohms, maximum, and an RS-232 serial interface. Optionally available shall be dual dry contact alarm relays and an RS-485 serial interface. The instrument shall be connected via multi-conductor cable furnished with the electronic scale utilized.

### 2.1 COMPONENTS

#### 2.1.1 ELECTRONIC INDICATOR

The electronic indicator shall be a single channel device, furnished in a UL-approved, NEMA 4X enclosure, providing an operating display range suitable to the electronic scale(s) utilized.

The indicator shall have an electronic tare weight adjustments of 0 to 100 %. The display shall be a 6-digit, high-intensity LED with characters 0.56" in height, minimum, and be visible at a distance of greater than 20 ft from the instrument. Each channel shall display up to 99999.9 with a user

selectable display resolution of 0.1 to 5.0 lbs. (0.1 to 2 kg), dependent on the electronic scale utilized.

The electronic indicator shall provide LED digital displays of "Gross", "Tare", and "Remaining" weights, "Amount Used", and optionally, "Rate by Weight". Vertical LED arrays shall clearly indicate status of the weight display. Two user-configurable "Low Level" visual indicators shall be furnished as standard, with the capability of associated optional alarm contacts. (see options).

The operator interface shall be an array of five, tactile-feedback, function pushbuttons. These shall include zero setting and mode selection pushbuttons as well three arrow pushbuttons for adjusting the display and configuration values, and navigating the display parameters. Indicators with numeric keypads shall be unacceptable.

The indicator shall be capable of remote mounting to a distance of 1000 ft. /300 m.

### 3.0 POWER SUPPLY

The weight Indicator/transmitter shall operate from a 115/230 Vac, 50/60 Hz, single-phase, switch selectable power supply. Loop powered devices shall be unacceptable.

### 4.0 OPTIONS

#### 4.1 OUTPUTS / RELAYS

##### 4.1.1 LOW WEIGHT ALARM CONTACT (Optional - use if low weight alarm required)

The instrument shall provide with a total of two (2) user-configurable low weight alarm contacts, each of which can be adjusted over 100% of the measuring range. The alarms shall be dry contacts each rated 3 amps @ 250 Vac.

##### 4.1.2 RS-485 SERIAL OUTPUT

The instrument shall be provided with an RS-485 serial digital interface.

## 5.0 WARRANTY

The instrument shall be covered by the manufacturers Standard Warranty, which shall include the entire assembly for one (1) year from date of start up or eighteen (18) months from date of shipment, whichever occurs first.

## 6.0 MANUFACTURER

The scale shall be manufactured by Eagle Microsystems, Inc., Pottstown, PA, USA phone: 610-323-2250 / fax: 610-323-0114