



## **SINGLE PLATFORM ELECTRONIC SCALE – EDS400**

### **1.0 GENERAL**

The scale shall be an Eagle Microsystems Model EDS400 Single Platform Electronic Scale suitable for weighing a single cylinder or carboy having a maximum diameter of 15 inches / 38 cm. Scale shall have a maximum capacity of 360 lbs. / 162 kg., providing an accuracy of 0.25 % of rated capacity.

### **1.1 WORK SPECIFIED ELSEWHERE**

The scale base shall be anchored to the floor using 3/8" dia. mounting hardware supplied by the installing contractor.

### **1.2 START UP / OPERATION**

Installation shall be accomplished without the need for special tools or lifting devices. Start up, calibration and operation of the scale 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 scale shall be comprised of a floor mount weighing base and a locally mounted electronic indicator/transmitter, and shall be furnished complete with 15 ft. / 4.5 m. of interconnection cable. The entire weighing system shall weigh less than 25 lbs. / 11 kg for ease of installation and shipping.

### **2.1 COMPONENTS**

#### **2.1.1 SCALE BASE**

The weighing platform shall be a non-corrosive, high impact, PVC base. The scale shall be suitable for weighing one (1) 15 inch / 38 cm dia. cylinder or carboy. Cylinder or carboy weight shall be conveyed to an environmentally sealed, strain gauge load cell via a rugged and reliable three link lever system. Load cells shall be temperature compensated 0 to 150° F / 0 to 65° C. Systems incorporating hydraulic load cells shall not be acceptable. All scale electronics, including the load cell, shall be enclosed in a NEMA 4X enclosure. Maximum height of scale base (excluding electronics enclosure) shall not exceed 1.75 in. / 4.5 cm.

## 2.1.2 ELECTRONIC INDICATOR

The electronic indicator shall have a 6-digit, high intensity LED digital display of "Gross", "Tare", "Remaining", "Used" and "Total" weights. A multi-pushbutton operator keypad shall be provided for all operator and configuration entries. The operator display shall incorporate a vertical LED array to clearly indicate status of the weight display. Tare weight adjustment of 0 to 100 %. Display resolution shall be user selectable in 1, 2 or 5 lb. (0.5 or 2 kg.) increments. A low weight visual LED indicator shall be furnished on the face of the instrument as standard. Dual alarm contacts for actuation of remote alarms shall be optionally available (see options below). The indicator shall provide a 4-20 mA dc output proportional to the measured weight. 15 ft. / 4.5 m of interconnection cable shall be furnished as standard. However, the indicator shall be capable of remote mounting to a distance of 1000 ft. / 300 m.

(Note: for systems utilizing multiple scales - The indicator shall be capable of accepting inputs from two (2) scale bases.)

## 3.0 WARRANTY

The entire scale shall be warranted for defects in material and workmanship for a period of one (1) year from date of start up. The scale base shall be protected by an extended warranty for a minimum of five (5) years, which will provide warranty repair or replacement if the scale base is damaged through corrosive exposure.

## 4.0 POWER SUPPLY

The scale shall operate from a 120 Vac, 60 Hz ( other) power supply.

## 5.0 OPTIONS

### 5.1 OUTPUTS / RELAYS

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

The electronic indicator shall provide a low weight alarm contact rated at 1 amp @ 120 Vac or 1 amp @ 250 Vdc for each scale base utilized .

#### 5.1.3 SERIAL OUTPUT

The electronic indicator shall provide a RS232 serial output for each scale base utilized.

## 6.0 MANUFACTURER

The scale shall be manufactured by Eagle Microsystems, Inc., Pottstown,  
PA, USA

end of specification