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**TYPICAL SPECIFICATION FOR MODEL 3000™ DIGITAL TON CYLINDER SCALE**

**WITH ACCUPRO 5000 CONTROLLER**

**SCALE PLATFORM**

**Capacity:** A quantity of \_\_\_\_\_\_ Digital Ton Cylinder Scales shall be provided for horizontal weighing of ton cylinders and containers. Scale shall be of the digital readout/electronic load cell type with a net capacity of 2000 lbs. (907 or 1000 kg). Scale shall be of the single load cell design.

**Platform:** Scale platform shall be sized to accept a 22” to 39.37” diameter ton cylinder or container. Scale must have a rugged, steel frame that is protected by a corrosion resistant coating. Coating system shall consist of a zinc oxide primer and dry powder epoxy that is resistant to chemicals, moisture and UV light. The scale must be smaller than the dimensions of the cylinder it supports and tilt up for cleaning and inspection. The profile shall be ultra-low and there must be means to level the frame built into the scale frame. The frame shall have heavy-duty trunnions installed to provide easy container rotation. The trunnions shall be corrosion-proof with UHMW polyethylene rollers on stainless steel axles, requiring no maintenance or greasing. All hardware shall be stainless steel. A stainless steel leveling foot shall be supplied with the load cell. There must be a provision for securing weigh frame to floor.

**Load Cell:** Weight shall be transferred via a pivoted platform to a single, NTEP approved, temperature compensated stainless steel shear beam load cell with a built-in mechanical overload stop to protect it from damage during rough cylinder loading. A flexible, four (4) conductor cable with a minimum length of 20 feet shall connect load cell to controller and allow easy remote installation of the readout. Cable length shall be \_\_\_\_\_\_ ft. (20 ft. is standard).

**CONTROLLER (INDICATOR)**

**Display & Operation:** Controller must be electronic and have a 2 line x 16 character alphanumeric/graphic backlit LCD display with 6-digits for weight value. The controller shall give operator the ability to monitor chemical by weight or volume in pounds, kilograms, gallons or liters. An encoder knob or keypad with three (3) push buttons shall be provided for programming and setting tare weights. A multi-level menu system and bar graph display shall be provided for ease of operation and must be able to display the difference between net and tare weight. Controller shall have a provision for tare lock-out and password protection to prevent unauthorized use. Controller shall be field programmable and calibratable with no test weights.

**Channels & Set Points:** Controller shall monitor one (1) or two (2) channels. Each channel shall have available two (2) or four (4) adjustable set points in order to display low or high level conditions on the controller. Set points shall activate 3A relay contacts. Each channel shall display net weight plus a bar graph with net weight, gross weight and tare adjustment. Ability to mix different scale types on one controller shall be standard.

**Outputs & Alarms:** Controller shall provide for each channel an adjustable \_\_\_\_\_\_\_\_\_\_ (4-20 mA, 0-5V or 0-10V) analog output signal, selectable as scale or loop powered, that outputs net weight to provide the versatility to interface with related equipment.

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Controller shall feature both tri-color LEDs and a built-in 78 dB audible piezo buzzer alarm with adjustable volume control and external buzzer support to aid operator in monitoring critical alarm and alert conditions. Controller shall sound and display an alarm or alert for both low-level and high-level conditions. A leak detector input with the ability to trigger alarms and alerts shall be standard.

**Enclosure:** Controller shall be housed in a NEMA 4X, UL approved enclosure and shall carry CE marking. Power requirement shall be 90/240 VAC. Controller shall be capable of remote mounting up to 200 ft. from scale base.

**COMPLETE SCALE**

**Accuracy & Warranty:** Accuracy shall be ±0.25% of full scale capacity, or better. Scale and controller shall carry a full five (5) year factory warranty. “Limited” warranties shall not be accepted.

Scale shall be a Model 3000- \_\_\_\_\_\_\_\_\_\_\_\_ with \_\_\_\_\_\_\_\_\_\_\_\_ controller with \_\_\_\_\_\_ channels and \_\_\_\_\_\_ set points as manufactured by Scaletron Industries Ltd., Plumsteadville, PA.

**PART NUMBERS**

**Platform Part Numbers**

|  |  |  |
| --- | --- | --- |
| MODEL | SIZE | NET CAPACITY |
| 3000-2000LB | 20" to 39.37" Diameter | 2000 lbs. |
| 3000-907 or 1000KG | 20" to 39.37" Diameter | 907 or 1000 kg |

**Controller Part Numbers**

|  |  |  |
| --- | --- | --- |
| 5000-EK-1 | Encoder Knob | One Channel |
| 5000-EK-2 | Encoder Knob | Two Channel |
| 5000-PB-1 | Push Button Keypad | One Channel |
| 5000-PB-2 | Push Button Keypad | Two Channel |

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