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

**WITH ACCUPRO 7000-TS 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 4.3" alphanumeric/graphic color LCD touch screen display with adjustable brightness and 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. A touch screen 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 offer up to eleven (11) single-channel and nine (9) multi-channel weight displays and have a provision for password protection to prevent unauthorized use. Controller shall be field programmable and calibratable with no test weights.

**Channels & Set Points:** Controller shall monitor up to four (4) channels. Each channel shall have available two (2) or four (4) adjustable set points (maximum eight (8) total per controller) in order to display low or high level conditions on the controller. Set points shall activate 3A relay contacts. Each channel shall display net and gross weight; net and gross percent (%); net and gross weight bar graphs plus mA out, tare adjustment, set point values, on-screen and memory-stored historical data log, feed rate, daily usage, current amount used and days till empty. Controller shall also offer a batch control process that displays net weight, set batch amount, total amount and time to complete. Ability to mix different scale types on one controller shall be standard.

**Outputs & Alarms:** Controller shall provide for each channel an optional adjustable 4-20 mA analog output signal, scale powered, that outputs net weight to provide the versatility to interface with related equipment.

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An option for remote monitoring capabilities with either Modbus TCP through ethernet or Modbus RTU via RS-232/RS-485 serial network shall also be provided. Controller shall feature both a tri-color-status light and an optional 78 dB audible piezo buzzer alarm with 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 100/277 VAC. Controller shall be capable of remote mounting up to 200 ft. from scale base.

**COMPLETE SCALE**

**Accuracy & Warranty:** Accuracy shall be ±0.1% 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 3001- \_\_\_\_\_\_\_\_\_\_\_\_ with 7000-TS 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**

|  |  |  |
| --- | --- | --- |
| 7000-TS-1 | Touch Screen | One Channel |
| 7000-TS-2 | Touch Screen | Two Channel |
| 7000-TS-3 | Touch Screen | Three Channel |
| 7000-TS-4 | Touch Screen | Four Channel |

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