

Our customer has a tank supported on a load cell and requires to dispense measured amounts of product from the tank. Texmate installed a Tiger 320 Series DI-50E meter calibrated to indicate the product weight in the appropriate engineering units. The meter is installed with two remote push-button switches configured as TARE and TARE CLEAR. All non-application codes are blanked out. Relay 1 is connected to the tank outlet valve. The amount of product required is programmed into the meter at setpoint 1. Setpoint 1 is programmed with initial startup inhibit and relay latch OFF. (See Setpoints & Relays Supplement (NZ201) for full details.)

When the TARE button is pressed:

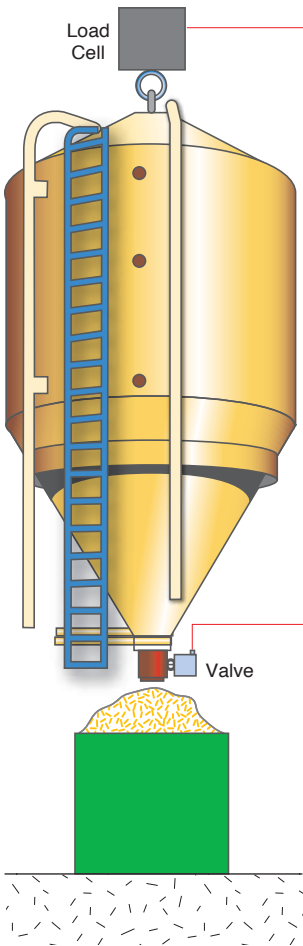
1. The display tares to 0.0
2. Relay latch off is removed and the relay energizes.
3. The valve opens until the setpoint value is reached and then closes as relay latch off operates again.
4. Pressing the TARE CLEAR button returns the meter to the operational display, indicating the weight of product remaining in the tank.

Note: The product weight reduces during dispensing, therefore the setpoint value is negative for the product taken.



APPLICATION FUNCTIONS

DISPENSE TANK PRODUCT BY WEIGHT USING A LOAD CELL



**1 OPERATIONAL DISPLAY**

Meter displays product weight in tank.

**2 ENTER SETPOINT PROGRAMMING MODE**

Press the PROGRAM and DOWN buttons. The meter enters the setpoint programming mode.

**3 SETPOINT PROGRAMMING MODE**

Set weight of product to be dispensed.

**4 OPERATIONAL DISPLAY**

Example

Press the PROGRAM button. The meter returns to enter the operational display.

**5 ENTER TARE MODE**

Press the TARE button. The meter enters the TARE mode and triggers Relay 1.

**6 IN TARE MODE**

When the meter displays the amount set in Setpoint 1, the Relay closes the motorized valve.

**7 IN TARE MODE**

Press the TARE CLEAR button. The meter displays the new product weight in the tank.

**8 OPERATIONAL DISPLAY**

OPERATIONAL DISPLAY

RELAY OUTPUTS

REGISTER RESETS

INPUTS

LOAD-CELL PRESSURE

Suggested Ordering Code Options for This Application

Basic Order Codes	Comments
<b>DI-50E-DR-PS1-IS01-OR11</b>	Tare and Tare Clear. One Relay.
<b>DI-50T-DR-PS1-IS01-OR146</b>	Custom Smart App is required for Batching application. Up to six Relays to control batch operation.

Note: Custom Smart App required. Charges vary depending on application. Contact Texmate.