

# MODEL 826 REMOTE DISPLAY

Used for Operation and Monitoring of a Model 831  
Sounding Type Level Transmitter

## FEATURES

- LCD display reads out in engineering units
- Integral update button initiates sounding.
- Green action LED indicates when unit is sounding
- Red status LED indicates that the self checking Model 831 is operating normally
- HOLD circuit prevents sounding during dump filling
- Isolated status alarm output to PLC, etc.
- 4-20mA convenience output terminals to hook in a PLC, recorder, computer, etc. are provided
- Powered from the Model 831 sounding transmitter; additional sources not required.

## OPERATION

To initiate a sounding operation, press the Update button. The green Sounding LED will turn on, indicating that the unit is sounding. When the sounding light goes out, the sounding operation is over and the display will be indicating the measured level. If a system problem is detected by the self checking software, the red Status LED will come on. A contact from a slide chute, dump valve, etc. can be wired in to prevent sounding while a large amount of material is falling into the tank.

## APPLICATIONS

The Model 826 Remote display is used to read the material level, to monitor diagnostics in the Model 831 Sounding Unit, and to locally initiate the sounding cycle. The 826 provides a pushbutton for manually sounding the 831 and terminals for connecting a contact to lock out sounding operations during periods when sounding would be inadvisable. Such times include rapid or "dump" filling operations, high speed material takeout, etc.

The Model 826 is commonly installed at the base of a tank or silo that has a Model 831 transmitter on top of it. The Model 826 allows local ground level display of the process material level and control of the top mounted Model 831 transmitter. It utilizes the same 4-20 mA output signal that also drives a remoted PLC, computer, telemeter, or similar device. The top mounted Model 831 transmitter may also be a member of a multipoint RS485 communications loop at the same time.



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## BASIC SPECIFICATIONS

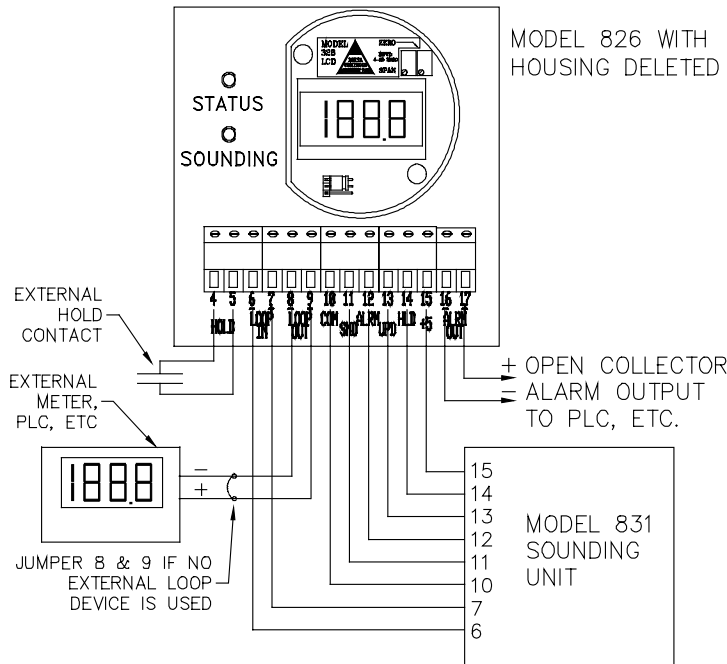
- Model Number:** 826  
**Display:** 3½ Digit LCD  
**Indicators:** Sounding LED, Status LED  
**Adjustments:** 20 turn Zero and Span Calibration  
**Status Alarm Output:** Type is isolated Open Collector;  
 Maximum Current is 100mA  
 Maximum Voltage is 30VDC  
**Supply Power:** None, provided by the Model 831  
**Temperature Range:** -40 to 176F (-40 to +80C)  
**Housing Rating:** Type 4X (Hoseproof)  
**Options:** None

## CALIBRATION

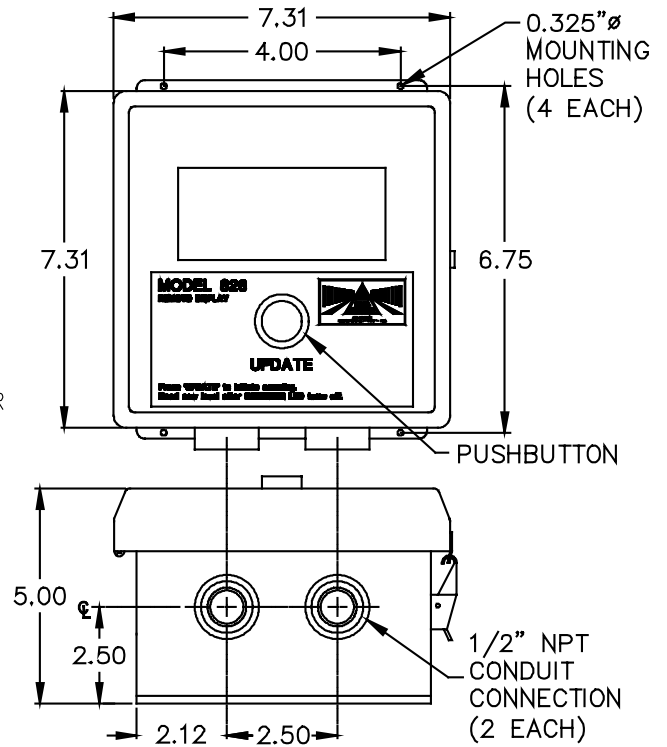
Calibration is simple and easy. The Model 826 can be calibrated using a mA calibration source. It can also be calibrated using the signal from an empty vessel to set zero, and any other known material elevation to set span.

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## MODEL 826 LAYOUT AND WIRING DIAGRAM

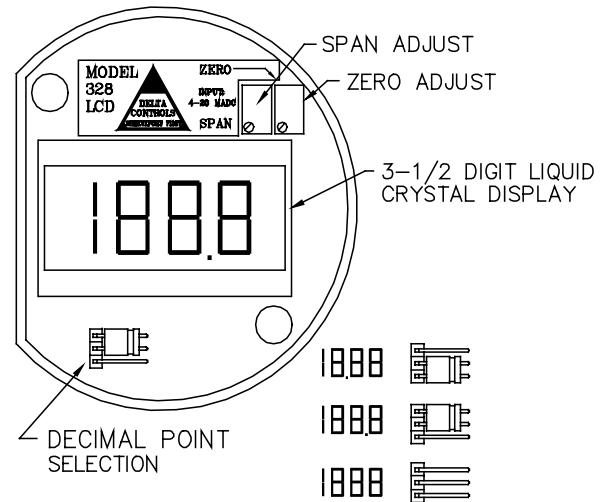


## HOUSING OUTLINE DIMENSIONS



## DISPLAY CALIBRATION

1. Set the decimal point jumper to the desired position.
2. Set the current to 4 mA. This is easily done by going to the 4 mA TRIM parameter on the Model 831.
3. Adjust the ZERO pot until the unit reads the desired zero-scale value.
4. Set the current to 20 mA. This is easily done by going to the 20 mA TRIM parameter on the Model 831, or using a hand calibrator.
5. Adjust the SPAN pot until the unit reads the desired full-scale value.
6. Calibration is complete.



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