

SD-Series

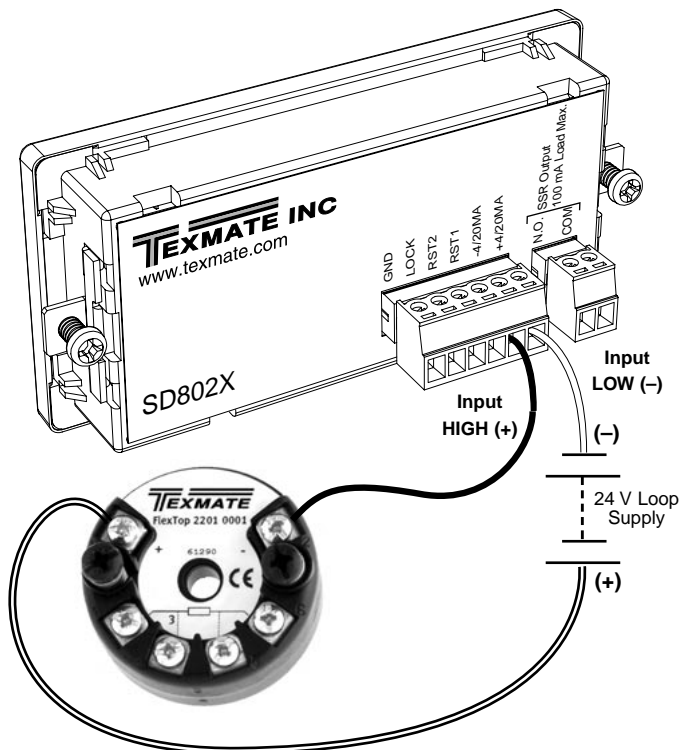


Touch-Pad  
Standard



Push-buttons  
Optional

### Typical Application Connections



# TEXMATE

## SD-802XAI

4-20mA Loop Powered Dual  
Display with Dual Totalizer

Dual 8-Digit, 5.5mm  
High Dot Matrix LCD Display,  
1/8 DIN Ultra Short Depth Case

### Compatibility

The 1/8 DIN case style and panel appearance of the SD-802XAI meter matches Texmate's range of Lynx, Leopard, and Tiger 320 Series meter families. The depth behind the panel is only 15 mm (0.59"), increasing to just 27.5 with a connector attached. The SD-802XAI makes an ideal extra or remote display as it can operate in conjunction with the 4-20 mA loop input, or from the 4-20 mA analog output of most Leopard or Tiger 320 Series meters.



### General Features

- Friendly front panel programming.
- Intuitive, user friendly calibration procedures.
- Single input channel with dual totalizers for sub and grand total processing.
- Smart digital filtering and programmable input averaging with averaging window for quick response time to large signal changes.
- Three external inputs using contact closures for resetting totalizer 1, totalizer 2, or preventing programming changes.
- One independent programmable setpoint.
- Setpoint activated from input or selected meter function.
- Setpoint hysteresis or deviation mode settings.
- Seven (7) relay timer modes.
- Single 210 mA, 400 VDC solid state relay (SSR).
- Relay latching.
- Manual relay reset.
- Programmable safety lockout to prevent tampering.
- Peak and valley retention.
- Optional NEMA-4 front cover.
- Square root extraction.

## Specifications

Input Configuration: .....Series connection to 4-20 mA DC current loop. 3.4 volts drop plus 20  $\Omega$  (equivalent to 3.9 V @ 20 mA), plus 2.3 V drop if Single solid state relay (SSR) installed

Relay Output: ..... SSR. Max 210 mA, 400 VDC ONLY

Display: .....Dual 8-digit, 5.5 mm high, 5 x 8 format dot-matrix Liquid Crystal Display (LCD)

Polarity: .....Assumed positive, displays – negative

Display Range: .....–9900000 to 9900000

Display Update: .....0.5 secs

Internal Resolution: .....16-bits

A/D Converter: .....16-bit Sigma Delta

Accuracy (Standard): ..... $\pm 0.02\%$  of reading  $\pm 2$  digit (typical)

Conversion Rate: .....10 samples per second

Temp. Coefficient: .....Typically 30 ppm/  $^{\circ}\text{C}$

Descriptors:.....Any ASCII character selectable

Decimal Point:.....Front panel, user programmable to seven positions

Operating Temperature: -10 $^{\circ}\text{C}$  to +50 $^{\circ}\text{C}$

Storage Temperature:.....-20 $^{\circ}\text{C}$  to +70 $^{\circ}\text{C}$

Warm Up Time: .....1 minute

Relative Humidity:.....95% (non-condensing)

Case Dimensions: .....1/8 DIN, Bezel: 96x48 mm (3.78"x1.89").  
Depth behind bezel 15 mm (0.59") plus  
16.4 mm (0.65") for right-angled connector

Weight: .....56.7 gms (2 oz)  
141.7 gms (5 oz) when packed

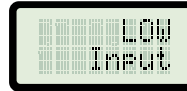
Case Material: .....Polycarbonate

Lens Cover: .....NEMA-4, (optional)

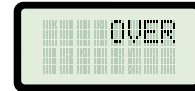
Underrange Indication:..Input signal below approx. 3.3 mA displays [LOW input] reading

Overrange Indication:....Input signal above approx. 27.7 mA displays [OVER] reading

Signal  
BELOW  
3.3 mA



Signal  
ABOVE  
27.7 mA



### Programming Buttons

PROGRAM: .....Move from one program step to the next

UP: .....Increase the value of the displayed parameter

DOWN: .....Decrease the value of the displayed parameter

### Application Functions

Totalizer: .....Two totalizers are available. The totalizer calculates the running total of a process signal being metered by accumulating an input process variable over time

Peak and Valley: .....The meter can retain peak and valley (min/max) information and recall this on the front panel

Setpoints: .....SP1 resets a selected function and / or activates Relay 1