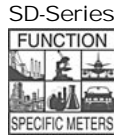




SD-50X

4-20mA Loop Powered Meter
5 Digit with 0.5" LCD
in a 1/8 DIN Ultra Short Depth Case

World's first 50,000 count, loop powered meter is incredibly easy to scale, from the front panel, to any desired engineering unit of measurement.



General Features

The SD-50X is the ultimate advancement in ease of use from the company that developed the worlds first 4-20 mA loop powered meters.

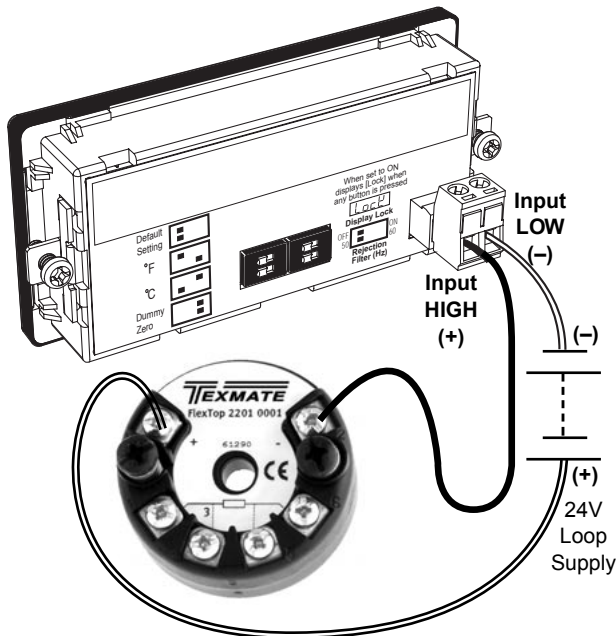
The SD-50X features lockable front panel scaling and calibration. Any 4 to 20 mA signal can be scaled from almost any two input values to display any required engineering unit of measure. A 4-20 mA input can display 50,000 counts of resolution from -19,999 to +30,000. The 6th digit can be selected to display °F, °C or an inactive extra zero from a dip switch at the rear of the case.

With less than a 4 V loop drop, this meter can be inserted in the 24 V input loop excitation provided by our Lynx, Leopard and Tiger meter families. The optional 4-20 mA outputs from these meters can power several SD-50X units as remote displays.

Two SD-50X meters can be mounted in a 96x96 DIN cutout and powered from the same loop, but display different scale readings such as °F and °C, lbs and kg or psi and Torr.

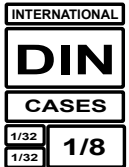
Easy scaling and high resolution also enables the SD-50X to be used as a precision counting scale, for nuts and bolts, barrels or boxes.

Typical Application Connections



Compatibility

The SD-50X has a matching DIN case style and panel appearance that is complementary to the Lynx, Leopard and Tiger family of meters, except the depth behind the panel is only 15 mm (0.59"). The SD-50X makes an ideal extra or remote display as it can operate either in conjunction with the 4-20 mA loop input or operate from the 4-20 mA analog output of most Leopard or Tiger meters.



Specifications

Input Configuration:Series connection to 4-20 mA DC current loop. 3.4 volts drop, plus 20 Ω (equivalent to 3.9 V @ 20 mA)

Full Scale Ranges:Standard meter is adjustable to any Display Span between a max negative reading of -19,999 and a max positive reading of 30,000, max resolution (50,000 counts), from any signal input span between 3.5 mA and 27.5 mA.

A/D Converter:16 Bit Sigma Delta

Accuracy:±0.02% of reading plus 2 digits

Temperature Coefficient: Typically 30 ppm/ °C plus 0.1 counts/ °C for zero offset.

Warm Up Time:One minute to specified accuracy

Conversion Rate:3 readings per second

Display:Liquid Crystal Display (LCD) 0.5"

Polarity:Assumed positive, displays - negative

Descriptors:Dip switch selectable dummy zero, °C, °F

Decimal Point:User programmable to six positions

Positive Over-range:Display shows -----

Negative Over-range:Display shows -----

Power Supply:Designed to be powered from the 4-20 mA current loop input signal. Min input 3.5 mA, Max continuous input 100 mA. 3.4 volts drop, plus 20 Ω (equivalent to 3.9 V @ 20 mA). Typically load is 200 Ω.

Operating Temperature: ..-10°C to +50°C

Storage Temperature:-20°C to +70°C

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

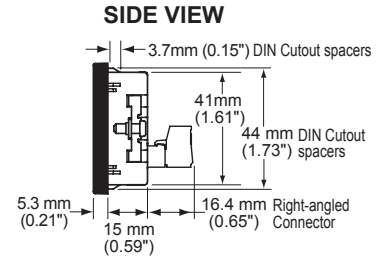
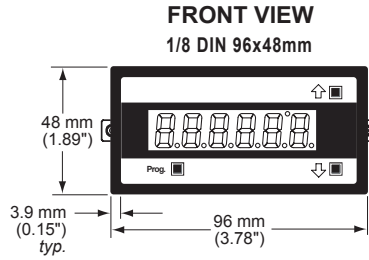
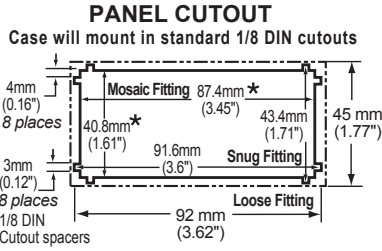
Weight:56.7 gms (2 oz)
141.7 gms (5 oz) when packed

SD-Series, Short Depth Meters

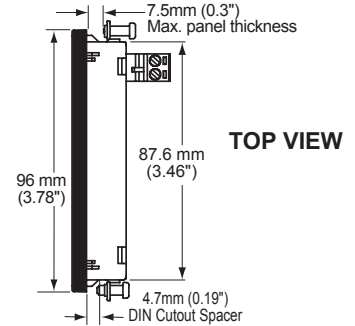
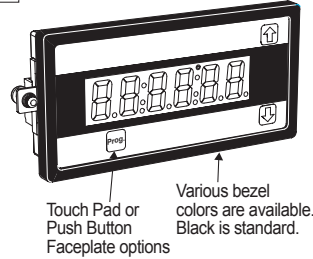
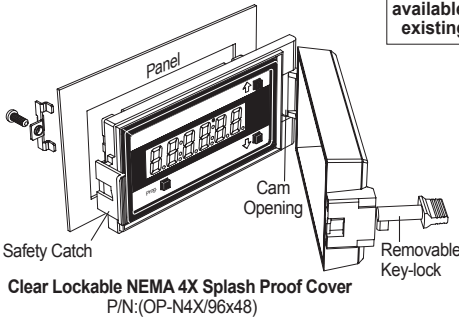
SD-350.2 / 2 / 20 / 200 / Custom DC V ranges, 3.5 digit, 5 V DC Powered

SD-50X5 Digit 4-20 mA Loop Powered

SD Case Dimensions and Panel Cutouts



Panel adaptor plates are available to retrofit most existing panel cutouts.



The clear lockable cover is designed to be dust and water proof to NEMA-4X, IP65 standards. The assembly consists of a base and cover with a cam hinge and key-lock fastening mechanism. An O-ring, or neoprene gasket forms a seal between the base and the panel. The cam hinge prevents the cover from closing when opened until pushed closed. The cover has a tapered recess that, when closed, forms a seal with a tapered spigot on the base. A key-lock employs a cam locking device to force the spigot into the recess, ensuring seal integrity. A safety catch keeps the cover closed even when the key is removed, and the keyhole can be used to attach a safety seal clip, preventing unauthorized opening.

Front Bezel Descriptors

AC	Ω	kV	kVAR	m ³ /hr	Hz	RPM
V	mV	min	PF	°F	°C	Cosθ
DC	x10kN	μA	PSIG	mS	kg/cm ²	psi
kW	W	KWH	pH	%	K	kPa
A	mbar	mA	MW	kA	RPS	MWH
mWs	μm	kW/s	I	I/sec	ml	cm
DRP	mm/s	1/min	mm	kg/sec	lbs	kg/hr
FT	bars	min ¹	m/min	Mvars	μV	dB

To customize the front bezel, each SD-meter is supplied with a white printed clear adhesive label containing various popular descriptors. Choose the descriptors desired, peel off the adhesive backing and align the descriptors in the center right of the faceplate.

Ordering Information

Standard Options for this Model Number

Part Number	Description	List
-------------	-------------	------

► BASIC MODEL NUMBER

Includes plug in type screw terminals and standard LCD display.

SD-50X.....DPM, 4 to 20 mA DC Loop Powered Touch-pad Faceplate

► DISPLAY

STANDARD.....LCD, 5 Digit, 0.56" with selectable °F, °C or extra 0 .N/C

Special Options and Accessories

► SPECIAL OPTIONS (Specify Inputs or Outputs & Req. Reading)

CB-FS50Custom Scaling within the standard 4 to 20mA range

► ACCESSORIES (Specify Serial # for Custom Artwork Installation)

- 75-DBBZ9648F ...Black Bezel for 96x48mm Case
- 93-PLUG2P-DP ...Extra Screw Terminal Conn., 2 Pin Plug
- OP-N4X/96X48 ...Clear Lockable Water-proof cover, Nema 4X, IP65
- OP-SD50XPB ...Push-Button faceplate option for SD-50X
- OP-PSA/96X48 ...Panel Cutout Reinforcer with O-Ring Seal
- OP-PMA96X48 ...Panel Cutout Reinforcer with 2 Brackets & Clips
- ART-FS-S/DNRC for Artwork & set-up Custom Faceplate and or Descriptors ...
- ART-FS-S/D/CNRC for Artwork & set-up Custom Faceplate and Custom Logo ...
- ART-FS-001Produce & Install Custom Faceplate per meter - 1 color no-min ...
- ART-FS-002Produce & Install Custom Faceplate per meter - 2 color no-min ...
- ART-FS-003Produce & Install Custom Faceplate per meter - 3 color no-min ...
- ART-FL-001Custom Faceplate, 250 piece Min. (\$1.00 each) - 1 color
- ART-FL-002Custom Faceplate, 250 piece Min. (\$1.40 each) - 2 color
- ART-FL-003Custom Faceplate, 250 piece Min. (\$1.80 each) - 3 color

Many other options and accessories are available. See full price list for more details. Prices subject to change without notice.

WARRANTY

Texmate warrants that its products are free from defects in material and workmanship under normal use and service for a period of one year from date of shipment. Texmate's obligations under this warranty are limited to replacement or repair, at its option, at its factory, of any of the products which shall, within the applicable period after shipment, be returned to Texmate's facility, transportation charges pre-paid, and which are, after examination, disclosed to the satisfaction of Texmate to be thus defective. The warranty shall not apply to any equipment which shall have been repaired or altered, except by Texmate, or which shall have been subjected to misuse, negligence, or accident. In no case shall Texmate's liability exceed the original purchase price. The aforementioned provisions do not extend the original warranty period of any product which has been either repaired or replaced by Texmate.

USER'S RESPONSIBILITY

We are pleased to offer suggestions on the use of our various products either by way of printed matter or through direct contact with our sales/application engineering staff. However, since we have no control over the use of our products once they are shipped, NO WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE is made beyond the repair, replacement, or refund of purchase price at the sole discretion of Texmate. Users shall determine the suitability of the product for the intended application before using, and the users assume all risk and liability whatsoever in connection therewith, regardless of any of our suggestions or statements as to application or construction. In no event shall Texmate's liability, in law or otherwise, be in excess of the purchase price of the product.

Texmate cannot assume responsibility for any circuitry described. No circuit patent licenses are implied. Texmate reserves the right to change circuitry, specifications, and prices without notice at any time.