SR2800

POTENTIOMETER POSITION INPUT TWO-WIRE TRANSMITTER

FEATURES

- **Provides DC Output Proportional to a Potentiometer Position Input**
- **Potentiometer Values from 1 kilohm to 50 kilohms**
- **Reverse Polarity-Protected**
- **Test Points for Loop Current Monitoring without Breaking Loop Circuit**
- **50 mm Diameter Case - 33 mm Mounting Hole Spacing**
- **NEMA-4 Connection Head and Explosion-Proof Housing Available**
- **Low Cost**
- **5 Year Warranty**

DESCRIPTION

The SR2800 is a low-cost, reliable, potentiometer input two-wire transmitter for field or panel mounting in various industrial housings and enclosures. It provides a DC output current (4/20 mA) proportional to the wiper position of a potentiometer.

The module utilizes a stable 2.5 VDC power supply to excite the potentiometer. Any value potentiometer from 1 kilohm to 50 kilohms may be used. The output ZERO and SPAN controls are accessible through the top of the case. Terminations are made to screw terminal connections on the top of the case.

Test points located on the SR2800 front panel allow verification of loop current value, with a millimeter, without breaking the loop current.

TYPICAL APPLICATION

Remote tank level, valve or actuator position data acquisition.

SPECIFICATIONS

INPUT POTENTIOMETER RESISTANCE
any value from 1 kilohm to 50 kilohms

SPAN ADJUSTMENT
75% to 100% of pot rotation

OFFSET ADJUSTMENT
0 to 25% of pot rotation

INPUT IMPEDANCE
> 10 megohms

OUTPUT RANGE
4/20 mA
Current limited = 35 mA

MAX LOAD RESISTANCE
= [(V supply - 10)/ 20 mA] kilohms

RESPONSE TIME
Step Change
100 ms for 99% of final value

ACCURACY
±0.1% of span

COMMON MODE REJECTION
120 dB, DC to 60 Hz

OPERATING TEMPERATURE
-13°F to 176°F/-25°C to 80°C

TEMPERATURE STABILITY
±0.015% of span per °C

POWER
10 to 36 VDC, polarity-protected

SUPPLY VOLTAGE EFFECT
0.02% of span max, 10 to 36 V

ORDERING INFORMATION

INPUT

Specify Input

Potentiometer input products are calibrated assuming 0 to 100% rotation. Final calibration should be done using the actual system potentiometer.

OPTIONS

☐ Conformal Coating

TAGS

Specify Tag Numbers

Tag Number is typed on product label at no charge.

Enter Tag Number(s)

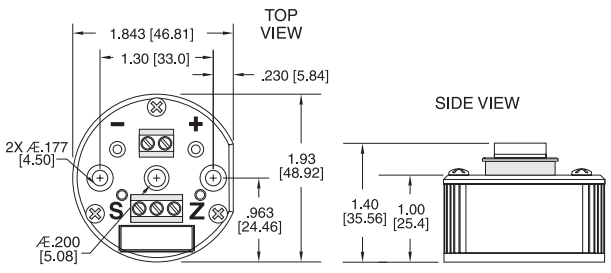
ACCESSORIES

SR2800

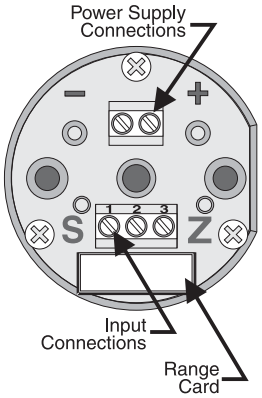
DMP2000	Mounting Plate, DIN-Rail (SR2000 & TW300)	QTY _____
TSH-A6L	NEMA-4 Aluminum Connection Head (SR2000 & TW300)	QTY _____
SR-CARD	Silver Series Transmitter Range Card (SR2000)	QTY _____
DR1	DIN-Rail, 35 mm Symmetrical, 39 inches (1 meter)	QTY _____
XJAY	Explosion-Proof Housing for SR2000 and TW300 Series	QTY _____

DIMENSIONS

Inches [mm]



CONNECTIONS



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