

SF1302

RTD INPUT SLIM PROFILE TWO-WIRE TRANSMITTER

FEATURES

- Provides 4/20 mA DC Output Proportional to a Two-Wire RTD Input
- 5/8" Thick Low Profile Design Allows Mounting of Two Transmitters in a Single Standard Size Connection Head for use with Dual RTD's
- · 2-Wire, 10 ohms to 1000 ohms RTD's
- · Linearized for Platinum RTD's
- · NEMA-4 Connection Head Available
- 50 mm DIN Diameter Case 33 mm Mounting Hole Spacing
- · Low Cost
- · 5 Year Warranty

DESCRIPTION

The SF1302 is a low-cost, reliable, RTD input two-wire transmitter designed with the OEM in mind. These transmitters are housed in a low profile, 50 mm diameter extruded aluminum case. This thin design allows two transmitters to be stacked in one standard connection head for use with dual RTD sensors.

The SF1302 provides a DC output current (4/20 mA) proportional to a two-wire RTD input. Filtering and

conditioning to reduce susceptability to transients and noisy operations provides accurate, trouble-free operation. Linearization is provided for platinum RTDs.

The SF1302 utilizes a single constant current source to excite the RTD. The output ZERO and SPAN controls are located on the top of the case. Terminations are made to screw terminal connectors on the top of the case. A center hole provides clearance for ½

inch diameter and smaller sensors.

An optional DIN-rail mounting kit allows the SF1302 to be mounted on standard 35 mm rails. Two transmitters can also be stacked in the DIN-rail if space is limited.

TYPICAL APPLICATIONS

Remote temperature data acquisition.

SPECIFICATIONS

INPUT

2-Wire, 10 ohms to 1000 ohms Pt, Ni, Cu (100 Ohm Pt RTD lead resistance = 0.1 ohms max. ie: 24 in. Probe with 24 awg Leads)

OUTPUT

4/20 mA

INPUT RANGE

specify any range within RTD limit (min. 50°F / 28°C Span)

EXCITATION CURRENT

2.65 mA

MAX LOAD RESISTANCE

Rmax = (V supply-12V / .020 mA) kilohms

ACCURACY

±0.1% of span or 0.2 ohms, whichever is greater

LINEARITY

(Platinum RTD, output vs. temp.) ±0.05% of span (-50 to 500°C) ±0.15% of span (0 to 900°C)

COMMON MODE REJECTION

100 dB, DC to 60 Hz

OPERATING TEMPERATURE

-13°F to 176°F / -26°C to 80°C

TEMPERATURE STABILITY

±0.02% of span or 0.025°C/°C, whichever is greater

POWER

12 - 32 VDC, polarity protected

SUPPLY VOLTAGE EFFECT

0.02% of span max., 12 to 32 VDC

ORDERING INFORMATION

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Select Units

□ Deg C □ Deg F

Enter Input

Zero Scale

Full Scale

Select Sensor

☐ 100 ohm Pt., .00385 Alpha

□ 100 ohm Pt., .00392 Alpha

 \square 100 ohm Pt., .00375 Alpha

□ 1000 ohm Pt., .00385 Alpha □ 1000 ohm Pt., .00392 Alpha

10 ohm Cu.

□ Other - Specify in Notes

OPTIONS

☐ Conformal Coating

ACCESSORIES

SF1302

DMP2000 Mounting Plate, DIN-Rail & Surface (SR2000 & TW300) QTY ______
TSH-A6L NEMA-4 Aluminum Connection Head (SR2000 & TW300) QTY _____
DR1 DIN-Rail, 35 mm Symmetrical, 39 inches (1 meter) QTY _____
XJAY Explosion-Proof Housing (SR2000 & TW300 Series) QTY _____

