

SR2101 DC INPUT, ISOLATED, TWO-WIRE TRANSMITTER, 50 mm DIAMETER CASE

FEATURES

A plug-in range card permits user ranging

to the required voltage or current input

range. The output ZERO and SPAN

controls are accessible through the top of

The SR2101 is enclosed in an extruded

aluminum housing with an aluminum back. A DIN rail mounting clip is avail-

- Provides DC Output Proportional to a DC Voltage or Current Input
- Fully Isolated Input/Output
- Unlimited * Choice of Input Ranges via Interchangeable Range Cards
- 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 SR2101 is a low-cost, reliable, DC 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 an DC voltage or current input.

The output is galvanically isolated from the input.

Test points located on the SR2101 front panel allow monitoring of loop current value, using a current meter, without breaking the loop.

SPECIFICATIONS

OUTPUT RANGE

the case.

able.

4/20 mA Current Limited = 28 mA

ISOLATION

Output / Input 1000 Volts RMS sinewave

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

RESPONSE TIME

(Range Dependent) - Step Change 150 ms for 99% of final value

ACCURACY

±0.1% of span

LINEARITY

Better than ±0.05% of span

TYPICAL APPLICATION

Remote data acquisition. Distance limited by wire resistance. Voltage to current conversion. Isolation between input and output. Elimination of ground loops. Measurement of signals with high common mode voltages.

All Wilkerson products are designed with RFI filters and lightning protection to reduce susceptibility to electrical noise and damage by lightning.

INPUT RANGE

Voltage

any range between ±128V max (min. full scale span 16 mV)

Current

(internal shunt) any range between ± 0.1 A max (min. full scale span 10 uA)

INPUT OFFSET

can cancel any offset from -100% to +100% of span

INPUT IMPEDANCE

 $V \ln < 1 V: \ge 10 \text{ megohms}$ $V \ln > 1 V: > 1 \text{ megohm}$

- I In: range dependent
- Current Input
 Input Shunt Value

 0/1 mA
 100.0 Ohm

 0/5 mA
 49.9 Ohm

 4/20 mA
 61.9 Ohm

 10/50 mA
 20.0 Ohm

 1/100 mA
 20.0 Ohm

COMMON MODE REJECTION

120 dB, DC to 60 Hz

OPERATINGTEMPERATURE

-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

* Within specified range limits.

SR2101 ORDERING INFORMATION

Copy and Fax to Place Order.

INPUT

Select Units

□ VDC □ mADC Enter Input

Zero Scale

Full Scale

OPTIONS

Conformal Coating

TAGS

Specify Tag Numbers Tag number is typed on product label at

no charge.

Enter Tag Number(s)

ACCESSORIES

SR2101

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

Qty_	
Qty_	
Qty_	
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