



# DR4380A

## DC INPUT FIELD RANGEABLE ISOLATED TRANSMITTER

### FEATURES

- Provides a Galvanic Isolated DC Output Proportional to DC Input
- 50 mV or 1 mA Minimum Input Span
- 256 V or 100 mA Maximum Input Span
- Voltage or Current Output
- Plug-in Screw Terminal Blocks
- Choice of Input/Output Ranges
- DIN Rail Mount - Case Only 0.5" Wide
- Steel Mounting Clip
- Permanent Warranty
- UL/cUL Recognized

### DESCRIPTION

The DR4380A provides an isolated DC voltage or current output proportional to a DC voltage or current input. The input and output can be ranged in the field utilizing slide DIP switches.

All of the DR Series of products provide transient protection to help eliminate damage from lightning and from other transients created on the power and signal leads.

### TYPICAL APPLICATIONS

The DR4380A provides 3 way isolation between input, output, and power source. The isolation makes the product useful for measuring input signals with high common mode voltages and for breaking ground connections to eliminate ground loops.

Its wide choice of inputs and outputs allow signal conversion and scaling as well.

### MOUNTING

All DR Series products are designed to mount on a 35 mm DIN rail.

The products feature a steel mounting clip, with a compression spring, for secure mounting.

### SPECIFICATIONS

#### INPUT RANGE

Voltage

Select any range between  $\pm 50$  mV to  $\pm 256$  V  
(Minimum span 50 mV)  
(Maximum span 256 V)

Current

Select any range between  $\pm 1$  mA to  $\pm 100$  mA, internal shunt  
(Minimum span 1 mA)  
(Maximum span 100 mA)

#### INPUT IMPEDANCE

Voltage

1 megohm

Current

Current Input 40 ohms

#### OUTPUT RANGE

Voltage

1/5 V 0/10 V  
0/5 V -10/10 V  
-5/5 V

Current

0/1 mA  
4/20 mA  
0/20 mA

Compliance > 10 V  
(Drive 500 ohms at 20 mA)

#### BANDWIDTH

-3dB at 3 Hz

#### OUTPUT RIPPLE

(peak to peak)  
<0.1% of span

#### ACCURACY

$\pm 0.1\%$  of span

#### LINEARITY

$\pm 0.05\%$  of span

#### COMMON MODE REJECTION

100 dB, DC to 60 Hz

#### ISOLATION, OUTPUT/INPUT/POWER

>500 megohms  
1000 V peak

#### OPERATING TEMPERATURE

14°F to 158°F  
-10°C to 70°C

#### TEMPERATURE STABILITY

$\pm (0.01\%$  of span)/°C max

#### POWER

24 VDC (Limits 21 to 28 VDC)  
60 mA max  
12 VDC (Limits 10 to 15 VDC)  
60 mA max

