DIN Rail Mount AC Voltage/Current Signal Conditioners

2-Wire Loop Powered Design

DRA-ACT-2 Series



Isolated

High Noise Immunity

✓ Low Profile Enclosure

The DRA-ACT-2I and DRA-ACT-2V Series are isolated 2-wire loop-powered ac current and ac voltage input DIN rail mount signal conditioners that convert the measured input into a proportional, linear and highly accurate 4 to 20 mA output current. The DRA-ACT-2I Series of ac current input models includes models for 0 to 1 Aac and 0 to 5 Aac inputs with 4 to 20 mA output. The DRA-ACT-2V Series of ac voltage input models includes models for 0 to 150 Vac, 0 to 250 Vac and 0 to 400 Vac inputs again with 4 to 20 mA output.

For complete safety, an internal transformer isolates the signal conditioner input from the output thus enabling these units to withstand large momentary inputs. Complete input to output isolation, high surge current capacity and high output signal-to-noise ratio make these signal conditioners highly immune to ground loop signals and RFI. These transmitter's are also equipped with a "test" terminal which facilitates monitoring of the output current by measuring the voltage drop across an internal 10 Ω resistor without disturbing the 4 to 20 mA process loop.

Specifications GENERAL

Accuracy: ±0.1% of span typical (2-100% of span) for pure sinusoidal input

Temperature Stability: ±0.015% of

span /1°C

CMR: 122 dB typical; 117 dB min

DRA-ACT-2 Series signal conditioner shown smaller than actual size.

Response Time: 220 msec (0-98%) Power Supply: 10 to 32 Vdc Loop Resistance: Rmax (Ω) =

(Vsupply 10)/0.02 SUPPLY AND LOAD

Variation Effect: <0.03% for full

change

Test Terminal: 40 to 200 mV

represents 4 to 20 mA

Output Ripple: Better than 0.1% of

span RMS

Frequency: 40 to 500 Hz Output: 4 to 20 mA Zero Adjust: ±35% min Span Adjust: ±25% min Operating Ambient:

0 to 70°C (32 to 158°F); 5 to 95%

RH, non-condensing

Storage Temperature:
-25 to 85°C (-13 to 185°F)

Enclosure: Polycarbonate

Mounting: Standard 35 mm DIN rail

or wall mount

Dimensions: 73 x 32.5 x 114 mm

(2.87 x 1.28 x 4.49") **Weight:** 0.5 lb (0.2 kg)



Input: 0 to 1 Aac, 0 to 5 Aac

Input Power Consumption: 0.26 VA

DRA-ACT-2

Isolated AC Transmitter

at 5 Aac input

Inrush Current: 40 Aac RMS max for 8 sec every 10 min; 75 Aac RMS max

for 1 sec every 10 min

DRA-ACT-2V (AC VOLTAGE INPUT)

Input: 0 to 150 Vac, 0 to 250 Vac,

0 to 400 Vac

Input Power Consumption: 0.3 VA

at 120 Vac input; 1.4 VA at

230 Vac input

Isolation: 2.5 KV RMS for one minute

