

DRA-ACT-4 DIN Rail Mount AC Voltage/Current Signal Conditioners

4-Wire AC Powered Design

DRA-ACT-4I Series AC Current Input

DRA-ACT-4V Series AC Voltage Input

- ✓ ± 0.1% Accuracy
- ✓ Isolated
- ✓ 4-20 mA Output
- ✓ Low Profile Enclosure

The DRA-ACT-4I AND DRA-ACT-4V Series are isolated 4-wire ac current and ac voltage input DIN rail mount signal conditioners that convert the measured input into a proportional, linear and highly accurate 4-20 mA output current. The DRA-ACT-4I Series of ac current input models includes models for 0-1 Aac and 0-5 Aac inputs with a 4-20 mA output. The DRA-ACT-4V Series of ac voltage input models includes models for 0-150 Vac, 0-250 Vac and 0-400 Vac inputs again with a 4-20 mA output. Standard instrument power is 115 Vac, 50/60 Hz. Units can also be configured for optional 230 Vac, 50/60 Hz power.

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. Zero and span trimmers accessible from the front panel of these units facilitate fine tuning.

Specifications

GENERAL

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

Temperature Stability: 0.02%/1°C

CMR: 122 dB typical; 117 dB min

Response Time: 220 msec (0-98%)

Power Supply: 115 Vac ± 15%, 50/60 Hz standard; 230 Vac ± 15%, 50/60 Hz optional

Power Consumption: 1.9 VA

Loop Resistance: 750 Ohms @ nominal ac supply; 600 Ohms

@ minimum ac supply
Supply and Load Variation Effect: < 0.03% for full change

Output Ripple: better than 0.1% of span RMS

Frequency: 40-500 Hz

Output: 4-20 mA

Zero Adjust: ±35% min

Span Adjust: ±25% min

Operating Ambient: 32 to 158°F (0 to 70°C); 5 to 95% RH, noncondensing

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

Enclosure: polycarbonate

Mounting: standard 35 mm DIN rail or wall mount

Dimensions: 2.87" H x 1.77" W x 4.69" D (73 x 45 x 119 mm)

Weight: 0.9 lb (0.4 kg)

DRA-ACT-4I SERIES (AC CURRENT INPUT)

Input: 0-1 Aac, 0-5 Aac

Input Power

Consumption: 0.26 VA at 5 Aac input

Isolation: Current Input: 2.5 KV RMS/1 min; Power Input: 4 KV RMS/1 min

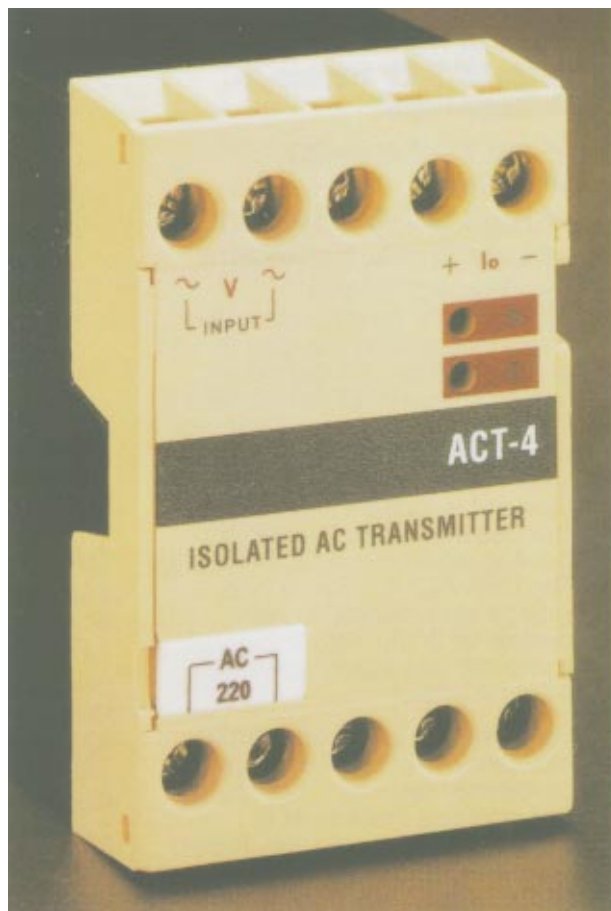
Inrush Current: 40 Aac RMS max for 8 sec every 10 min; 75 Aac RMS max for 1 sec every 10 min

DRA-ACT-4V (AC VOLTAGE INPUT)

Input: 0-150 Vac, 0-250 Vac,



\$220
Basic Unit



0-400 Vac

Input Power Consumption: 0.3 VA at 120 Vac input; 1.4 VA at 230 Vac input

Isolation: 4 KV RMS/1 minute

To Order (Specify Model Number)

DRA-ACT-4I ac current input models*

Model No.	Price	Description
DRA-ACT-4I-1	\$220	0-1 A ac input, 4-20 mA output
DRA-ACT-4I-2	220	0-5 A ac input, 4-20 mA output

DRA-ACT-4V ac voltage input models*

DRA-ACT-4V-1	220	0-150 Vac input, 4-20 mA output
DRA-ACT-4V-2	220	0-250 Vac input, 4-20 mA output
DRA-ACT-4V-3	220	0-400 Vac input, 4-20 mA output

* Standard power is 115 Vac, 50/60 Hz. To order unit configured for 230 Vac, 50/60 Hz power, add suffix "-230" to model no., no additional charge.

Comes with complete operators manual.

Ordering Example: DRA-ACT-4V-2, ac voltage signal conditioner, 0-250 Vac input, 4-20 mA output, \$220.