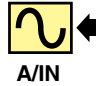


# SIGNAL CONDITIONERS

## 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 to 20 mA Output
- ✓ Low Profile Enclosure



DRA-ACT-4 shown smaller actual size.

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 to 20 mA output current. The DRA-ACT-4I Series of ac current input models includes models for 0 to 1 Aac and 0 to 5 Aac inputs with a 4 to 20 mA output. The DRA-ACT-4V 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 a 4 to 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 to 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 to 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 Ω @ nominal ac supply; 600 Ω @ 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 x 1.77 x 4.69" (73 x 45 x 119 mm)  
**Weight:** 0.9 lb (0.4 kg)  
**DRA-ACT-4I SERIES (AC CURRENT INPUT)**  
**Input:** 0 to 1 Aac, 0 to 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 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:** 4 KV RMS/1 minute

### To Order

#### DRA-ACT-4I ac current input models\*

Model No.	Description
DRA-ACT-4I-1	0 to 1 A ac input, 4 to 20 mA output
DRA-ACT-4I-2	0 to 5 A ac input, 4 to 20 mA output
<b>DRA-ACT-4V ac voltage input models*</b>	
DRA-ACT-4V-1	0 to 150 Vac input, 4 to 20 mA output
DRA-ACT-4V-2	0 to 250 Vac input, 4 to 20 mA output
DRA-ACT-4V-3	0 to 400 Vac input, 4 to 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 to 250 Vac input, 4 to 20 mA output.