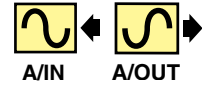


## DIN Rail Mount AC Voltage/Current Signal Conditioners



**DRA-ACT-SI Series AC  
Current Input**  
**DRA-ACT-SV Series AC  
Voltage Input**



- ✓ Self-Powered
- ✓ ±0.1% Accuracy
- ✓ Isolated
- ✓ Low Profile Enclosure

The DRA-ACT-SI and DRA-ACT-SV Series are self-powered ac current and ac voltage input DIN rail mount signal conditioners that use the measured input to produce an accurate and linear output current. These signal conditioners have excellent accuracy, linearity and stability which make them unique.

The DRA-ACT-SI Series of ac current input models includes models for 0 to 1 Aac and 0 to 5 Aac inputs with a choice of either 0 to 1 mA or 0 to 20 mA output. The DRA-ACT-SV Series of ac voltage input models includes models for 0 to 150 Vac and 0 to 300 Vac inputs again with a choice of either 0 to 1 mA or 0 to 20 mA output. The output current from all of these self-powered models always starts at 0 mA since these units are powered from the measured signal. Therefore, when the ac current or voltage input is zero, the output is zero.

For complete safety, an internal transformer isolates the signal conditioner input from the output thus enabling these units to withstand large momentary inputs. The input to output isolation provides high output signal-to-noise ratio which makes these signal conditioners highly immune to ground loop signals and RFI.

### Specifications

#### GENERAL

**Accuracy:** ±0.1% (for 5 to 120% of span) typical; ±0.15% max

**Linearity:** < ±0.1% (for 5 to 120% of span) typical; ±0.15% max

**Temperature Stability:** < 0.01%/°C

**Power Supply:** Self-powered from measured input



**Isolation:** 4 KV RMS/1 minute  
**Output:** 0 to 1 mA, 0 to 20 mA  
**Output Ripple:** < ± 0.1% of span  
**Response Time:** < 240 msec (10 to 90%)

**Frequency:** 40 to 400 Hz

**Frequency Variation Effect:** < ± 0.02%/Hz

**Max Output Loop Impedance:**  
 $R_{max} (\Omega) = 16/0.02 = 800 \Omega$  max @ 20 mA

**Operating Ambient:** -20 to 70°C (-4 to 158°F); 5 to 95% Rh, noncondensing

**Storage Temperature:** -40 to 90°C (-40 to 194°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:** 0.7 lb (0.3 kg)

### DRA-ACT-SI SERIES (AC CURRENT INPUT)

**Input:** 0 to 1 Aac, 0 to 5 Aac

**Overrange:** 6 Aac (for full accuracy)

**Overload:** 10 Aac continuous

**Peak Overload:** 40 Aac for 5 seconds every 10 minutes

**Input Power Consumption:** 0.6 VA @ 5 A input

**Load Variation Effect:** < ±0.02% for full load change

### DRA-ACT-SV (AC VOLTAGE INPUT)

**Input:** 0 to 150 Vac, 0 to 300 Vac

**Overrange:** +20% of span (for full accuracy)

**Overload:** +40% of span continuous

**Input Power Consumption:** 0.9 VA @ 300 Vac input



OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.

### To Order

Model No.	Description
<b>DRA-ACT-SI-1</b>	ac current, 0 to 1 Aac input, 0 to 1 mA output
<b>DRA-ACT-SI-2</b>	ac current, 0 to 5 Aac input, 0 to 1 mA output
<b>DRA-ACT-SI-3</b>	ac current, 0 to 1 Aac input, 0 to 20 mA output
<b>DRA-ACT-SI-4</b>	ac current, 0 to 5 Aac input, 0 to 20 mA output
<b>DRA-ACT-SV-1</b>	ac voltage, 0 to 150 Vac input, 0 to 1 mA output
<b>DRA-ACT-SV-2</b>	ac voltage, 0 to 300 Vac input, 0 to 1 mA output
<b>DRA-ACT-SV-3</b>	ac voltage, 0 to 150 Vac input, 0 to 20 mA output
<b>DRA-ACT-SV-4</b>	ac voltage, 0 to 300 Vac input, 0 to 20 mA output

Comes complete with operator's manual.

**Ordering Example:** DRA-ACT-SI-4, AC current signal conditioner, 0-5 Aac input, 0-20 mA output and OCW-2, OMEGACARE<sup>SM</sup> extends standard 2-year warranty to a total of 4 years.