

ACT-2I & ACT-2V AC Input, Two-Wire Transmitter

Operator's Manual

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1. Calibration Instructions

- 1.1 The ACT-2 coarse ranging is factory set.
The Zero and Span potentiometers located on the unit's front panel are used for fine tuning.

1.2 Calibration instrumentation:

1. 24Vdc power supply
2. AC voltage/current calibrator
3. High accuracy DVM
4. Small screwdriver

Connect the transmitter to be calibrated according to fig. #1.

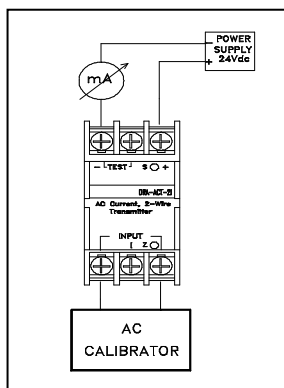
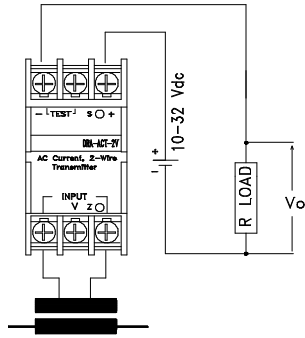


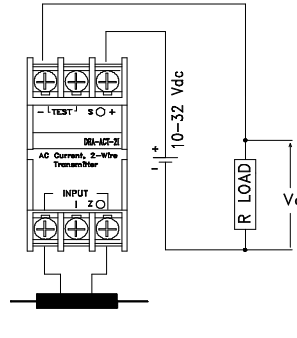
Fig. #1

- a. Set calibrator to 0 output
- b. Adjust with the Zero potentiometer to obtain an output current of 4.000mA
- c. Set the calibrator to I/V maximum.
- d. Adjust with the Span potentiometer to obtain an output current of 20.000mA
- e. Repeat steps a to d until satisfactory results are achieved.

2. CONNECTION DIAGRAM

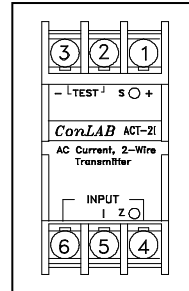
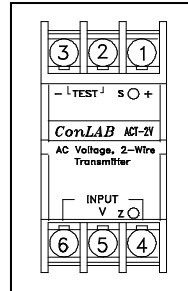
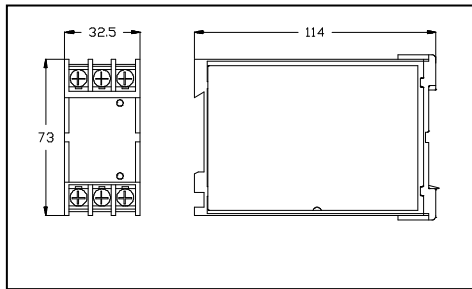


ACT-2V



ACT-2I

3. DIMENSIONS



4. Specifications

ACT-2I

INPUT: AC current
 INPUT SPAN: 0-1Aac, 0-5Aac (RMS)
 INPUT BURDEN: 0.26VA at 5Aac

INRUSH CURRENT:
 40Aac (RMS) max. for 8 sec/10min
 75Aac (RMS) max for 1 sec/ 10min
 ISOLATION: 2.5KV (RMS)/1 minute

ACT-2V

INPUT: Voltage input
 INPUT SPAN: 0-400Vac (RMS)
 INPUT BURDEN:
 1.4VA at 250Vac, 0.3VA at 120 Vac
 ISOLATION: 2.5KV (RMS)/1 minute

GENERAL SPECIFICATIONS

OUTPUT RANGE: 4-20mA
 TEST TERMINALS: 40-200mV represents 4-20mA
 SUPPLY VOLTAGE:
 10-32Vdc, reverse polarity protected

SUPPLY AND LOAD VARIATION EFFECT:
 $< \pm 0.03\%$ of span for full change
 LOOP DRIVE:
 $R_{max} (\Omega) = (V_{sup} - 10) / 0.02$
 RESPONSE TIME: 220msec. (0-98% of span)
 OUTPUT RIPPLE: Better than 0.1% of span RMS

FREQUENCY: 40- 60 and 400 Hz
 ACCURACY (2-100% of input span):
 $\pm 0.1\%$ of span for pure sinusoidal input

FINE ADJUSTABILITY:
 Zero: $\pm 35\%$ of span (minimum)
 Span: $\pm 25\%$ of span (minimum)

CMR: 122 dB typical, 117 dB minimum

TEMPERATURE STABILITY:
 $\pm 0.015\%$ of span/ 1°C

OPERATING AMBIENT: 32 to 158°F (0-70°C)

STORAGE TEMPERATURE: -13 to 185°F (-25 to +85°C)

HUMIDITY:
 5-95% relative humidity, non-condensing

PROTECTION LEVEL:
 Box: According to IP-50 DIN 40050
 Terminals: According to IP-10 DIN 40050

MOUNTING: Standard 35mm DIN rail

WEIGHT: 0.5lb (0.2Kg)