

SPECIFICATIONS

Please note that the following are typical ranges. We will manufacture instruments to cater for other ranges within limitations detailed below. All instruments come with span and zero potentiometers for fine tuning on site.

INPUTS: ACT-2V

AC Voltage

(factory set) 0 to between 80 to 420 Volts AC RMS e.g. 0 to 115 Volt AC RMS 0 to 230 Volt AC RMS 0 to 400 Volt AC RMS

Input Burden

0.4VA @ 230 Volts AC input 0.3VA @ 120 Volt AC input

Frequency Range 40 to 500 Hz

Frequency Variation Effect $<\pm0.2\%\,/\,\text{Hz}$

Calibration

Coarse: 1 resistor Fine: 2 multiturn potentiometers Zero: $\pm 35\%$ of span minimum Span: $\pm 25\%$ of span minimum

OUTPUTS:

DC Current 4 to 20mA Test Terminals 40 to 200mV representing 4 to 20mA

Loop Drive Capability $R_1 max = (V_{SUPPLY} - 10) / 0.02$

i.e.

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VSUPPLY	R_{LMAX}
12 Volts	100 ohms
24 Volts	700 ohms
32 Volts	1100 ohms

Output Ripple $< \pm 0.1\%$ of span RMS Isolation

2500 Volts RMS / 1 minute

AC Voltage Input 2 Wire Transmitter ACT-2V

Function: 2 wire isolating transmitter which will convert an AC Voltage input into a proportional, linear and highly accurate 4 to 20mA current output signal. An internal transformer isolates the input from the output enabling the transmitter to withstand large momentary inputs. The input to output isolation, high surge current capability and high output signal-to-noise ratio makes the transmitter highly immune to ground loop signals and RFI problems. Calibration is performed by means of one internal coarse range resistor and Zero and Span multiturn potentiometers brought out to the front panel for fine tuning. The transmitter is equipped with a test terminal which enables the user to measure the output current without breaking the current loop. The test terminal gives a voltage output (measured across an internal 10 ohm resistor) proportional to the output current. The transmitter is housed in a polycarbonate plastic enclosure suitable for mounting on DIN rail.

SUPPLY:

Power Supply Voltage 10 to 32 Volt DC reverse polarity protected

Supply/Load Variation Effect $< \pm 0.03\%$ of span for full change

GENERAL:

Accuracy (for 2 to 100% of Input) Better than $\pm 0.1\%$ of span for pure sinusoidal input

Common Mode Rejection 122 dB typical, 117 dB minimum

Temperature Coefficient $\pm 0.15\%$ of span / $\triangle 10^{\circ}C$

Response Time 220mS (0 to 98% of span)

Operating Temperature Range -20 to +70°C Option: -30 to +80°C

Storage Temperature Range $-40 \text{ to } +90^{\circ}\text{C}$

Operating/Storage Humidity Range 5 to 95% RH non-condensing

Mounting

Standard 35mm DIN rail

Protection Level Box to IP50 DIN40050 Terminals to IP10 DIN40050

Weight ACT-2V

200 gms



(a) Give identification code, i.e. ACT-2V

(b) Give details of input range, i.e. 0 to 240 Volt AC

(c) Give details of frequency range, i.e. 50 Hz(d) Please specify if optional Operating Temperature Range required

