

ADM237X-3wire Voltage Transmitter with field Excitation

- Suitable for SIL 1, 2 & 3 rated (IEC61508) safety system applications
- Suitable for combinations of process Voltage inputs and I/V outputs
- Supply voltage options: 115Vac or 230Vac $\pm 20\%$
24Vdc or 48Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010 available ('K' Option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

The active input port terminals include the Excitation loop and thus provides 24Vdc @30mA max power for the field device; 1 (+24Vdc Exc) & 2 (+5V or +10Vdc Signal) & 3 (0V)
Other voltage signal input ranges are available on request.

Outputs

Any standard process current or voltage
Current source ports up to 20mA (max load 1200 Ω @20mA)
Voltage source ports up to 10V (min load 500 Ω @10Vdc)
Current sink ports up to 24mA @30Vdc max external
(ADM237 = active port 7+ & 8 -)
(ADM237X = active port 7+ & 8 -, passive port 8+ & 9 -)

Isolation

1000V RMS* Input/Output/Supply/Earth
(*500Vdc when 'K' option is specified)

Accuracy/Linearity

Linearity: $< \pm 0.1\%$ Span
Accuracy: $< \pm 0.1\%$ Span

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH

Options

P = Output loop Test Point

DI = A 3½ digit front fascia Display of the input or output, scaled in units to suit application

K = RF Immunity: 20MHz-3GHz/5.25GHz 10V/m,
80MHz-1GHz/5.6GHz 30V/m, 889MHz-1.75GHz 40V/m

Dimensions

50w x 75h x 110d mm - standard enclosure
50w x 75h x 145d mm – 'DI' option enclosure
50w x 75h x 182d mm – 'k' option enclosure

WIRING

