

## ADM237(X) Process Signal Transmitter with field Excitation

- Suitable for SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications. As 1oo1 architecture (HFT:0)
- Non-Smart/Non-uProcessor based, Type 'A' instrument
- Supply voltage options: 115Vac or 230Vac  $\pm 20\%$   
24Vdc or 48Vdc  $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' Option)
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

The input active port terminals 1 (+) & 2 (-) include the loop Excitation and thus provides 24Vdc @30mA max power for the 4-20mA two-wire field transmitter.

4-20mA Passive/Sink port connection = 2 (+) & 3 (-)

#### Outputs

Any standard process current or voltage signal

Current source port up to 20mA (max load 1200 $\Omega$  @20mA)

Voltage source port up to 10V (min load 500 $\Omega$  @10Vdc)

Current sink port 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 RFI protection is specified)

Accuracy/Linearity:  $\leq \pm 0.1\%$  Span

#### Environmental Conditions

Storage Temperature: -40 to 70 $^{\circ}$ C

Operating Ambient: -15 to 55 $^{\circ}$ C

Relative Humidity: 5 – 95% RH

EMC: 2014/30/EU , EN 61326-1:2013

#### Options

**J** = Input Jack to inject an external signal into the passive input without disturbing the original loop integrity.

**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

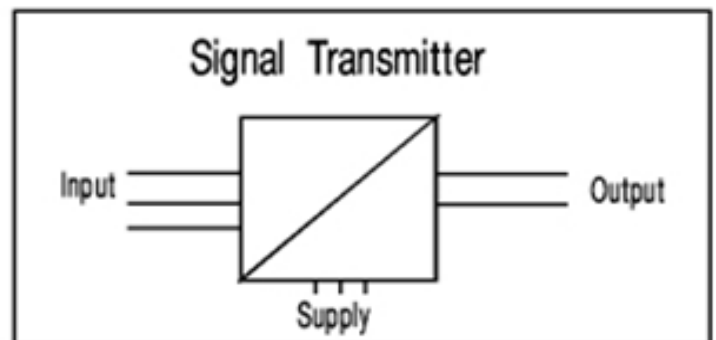
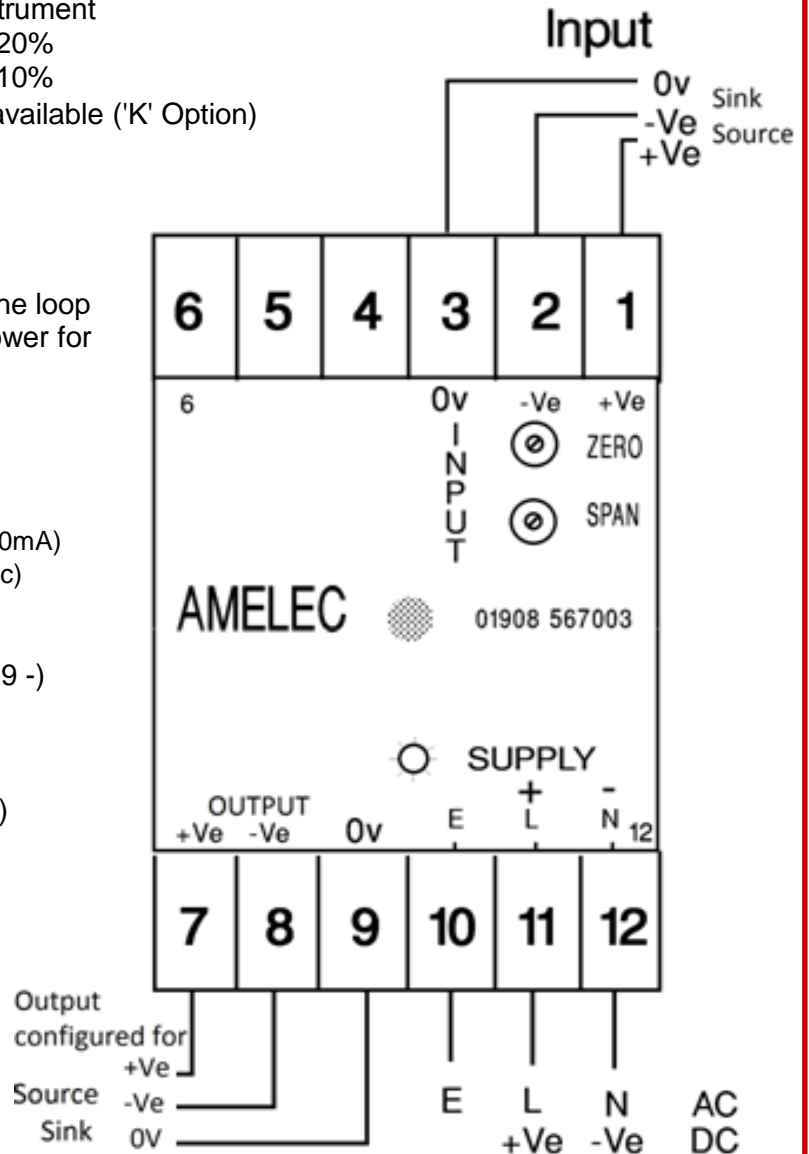
50w x 75h x 110d mm - Standard enclosure

'DI' or Plug Terminals option= 145d mm enclosure

'k' option enclosure = 182d mm enclosure

Mounting options: Din Rail (TS35) or Surface

### WIRING



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