

ADM237X Dual Output Transmitter with Active Input port (1995 rev.)

- 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 $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available (option 'K')
- 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 loop power for the 4-20mA two-wire field transmitter.

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

Outputs

Any standard process current or voltage (DC) signal, Current source ports up to 20mA. Drive voltage 11Vdc
Voltage source ports up to 10V. Max current 20mA
(Active ports: O/P1 = 7+ & 8 -, O/P2 = 5+ & 6-)

Performance

Accuracy/Linearity: $< \pm 0.1\%$ span

Response time: $< 100\text{ms}$ (0-100% step change)

Isolation: 1000V* RMS Input/Output/Output/Supply/Earth

*(500Vdc when RFI protection option 'K' is specified)

Supply consumption: $< 3\text{VA}$

Input O/C response: Downscale drive as std

(Input O/C Upscale drive 'X' option available)

Environmental Conditions

Storage Temperature: -40 to 70°C

Operating Ambient: -15 to 55°C

Relative Humidity: 5 – 95% RH (Non-condensing)

EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)

Options

H (or **H2**) = Configured to allow a HART loop signal pass through one Isolated channel in both directions (H2 = both channels)

DI = 3½ digit front fascia Display of the input or output, scaled as either 0-100.0% or in Engineering units to suit the application)

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

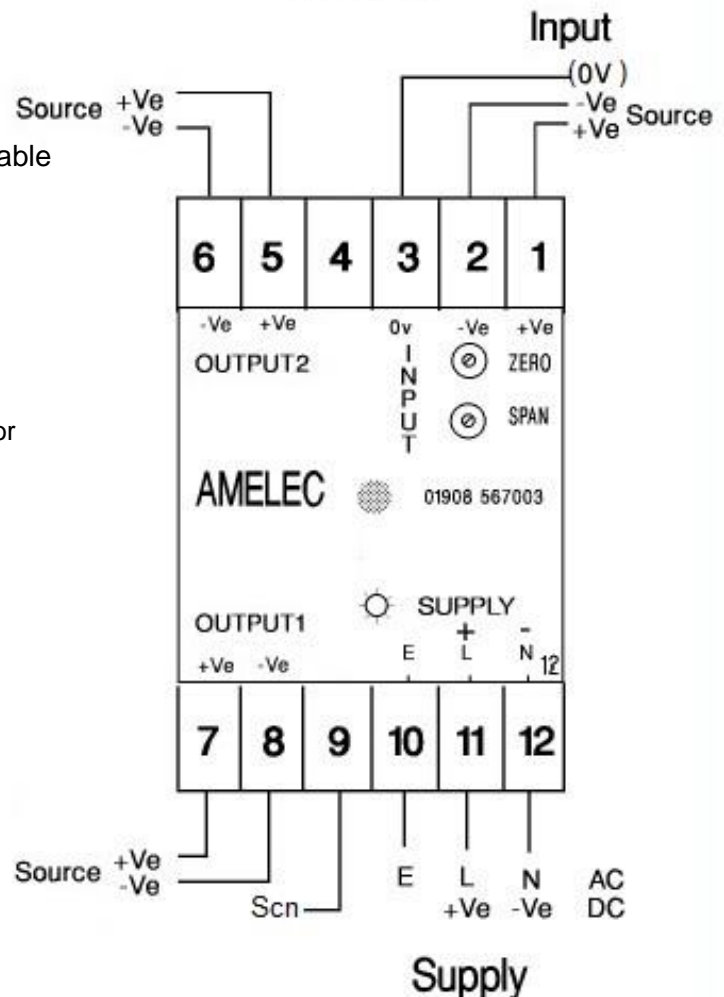
Dimensions

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

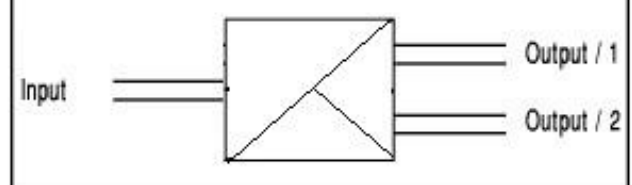
50w x 75h x 145d mm – 'DI' or Plug Terminals option enclosure

50w x 75h x 182d mm – 'K' option enclosure

WIRING



Signal Splitter with Excitation



Mounting

Din Rail (TS35) or Surface by corner fixing holes as standard.

Surface mounting option by rear Keyhole plate for 'DI' / 'K' / Plug-in Terminals option enclosures. (Mounting plate Dimensions: 50w x 130h mm)