

ADM237X-2 Dual Output Transmitter with Active & Passive ports

- 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
Current sink ports up to 24mA @30V max external
(Active ports: 7+ & 8 -, 4+ & 5-, Sink ports: 8+ & 9 -, 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

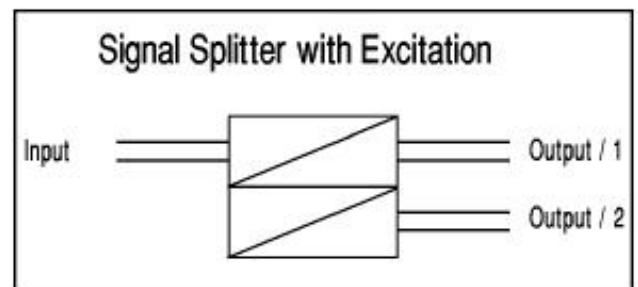
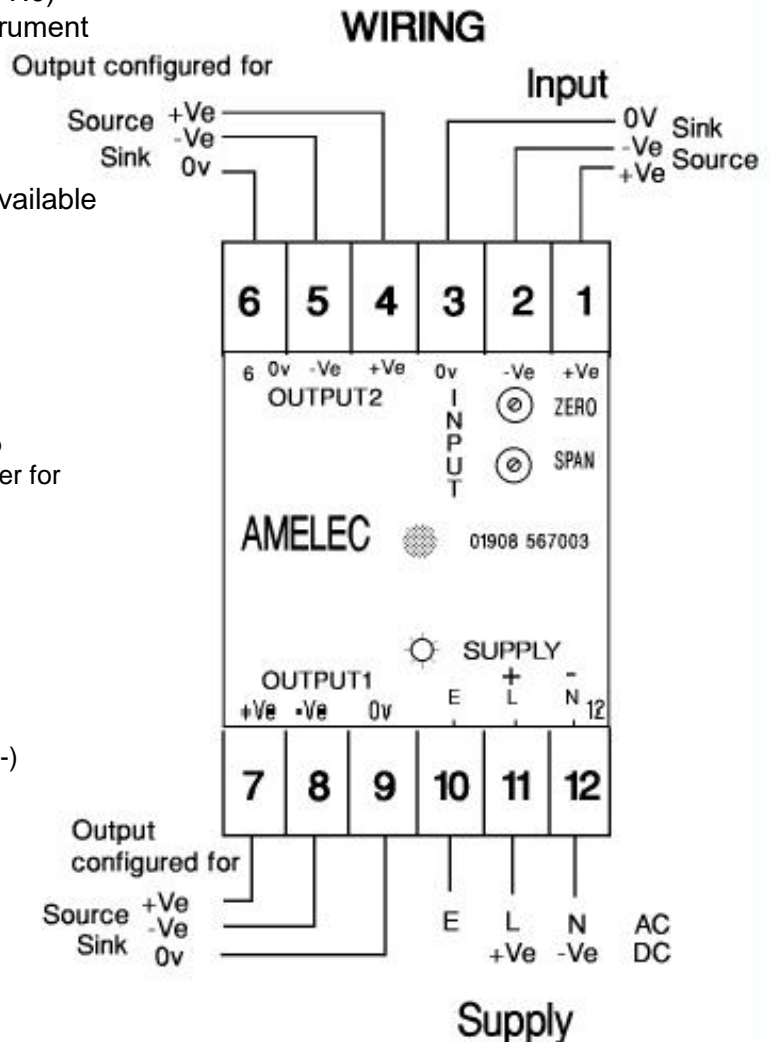
Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH (Non-condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)

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



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)