

ADM230X-2 (ADM231X) Dual Channel Transmitter/Isolator

- Suitable for SIL 1, 2 & 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage options: 24Vdc or 48Vdc +/-10% as std (AC power supply options available on request)
- AMELEC Standard 10 year warranty
- RFI Protection to EN 61000-4-3:2006/A2:2010 available

Technical Specifications (per channel)

Input (per channel)

Any current or voltage (DC) drive that can be terminated in a PI network to produce a 400mV span.
 Current from 1mA span, up to 100mA max input (passive port)
 Voltage ranges up to 150Vdc max (impedance $\geq 1M\Omega$)
 Typical Input: 4-20mA (impedance 20Ω) or 0-10Vdc (impedance $1M\Omega$)

Output (per channel)

Any standard process current or voltage in the range of;
 Current source up to 22mA max, with drive voltage 24Vdc (Current Sink option available, 30Vdc max external drive)
 Voltage source up to 20Vdc max output
 Typical Output: 4-20mA (max load 500Ω) or 0-10Vdc (min load 500Ω)

Performance

Accuracy/Linearity: $< \pm 0.1\%$ Span
 Response Time: typically $< 100mS$ (0-100% input step change)
 Supply consumption: $< 3VA$

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)
 ('K' option: EMC/EMI/RFI protection to the highest Generic Industrial Standards Test levels)

Protection

Isolation: 1000V RMS* Input/Output/Supply/Earth.
 *(500Vdc when 'K' option RFI protection is specified)
 Internal Fuse
 Input over range: typically up to 300% as std
 Input Open Circuit response: Downscale drive as std

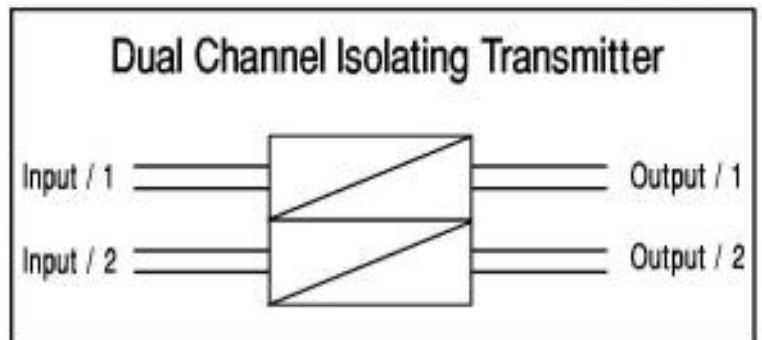
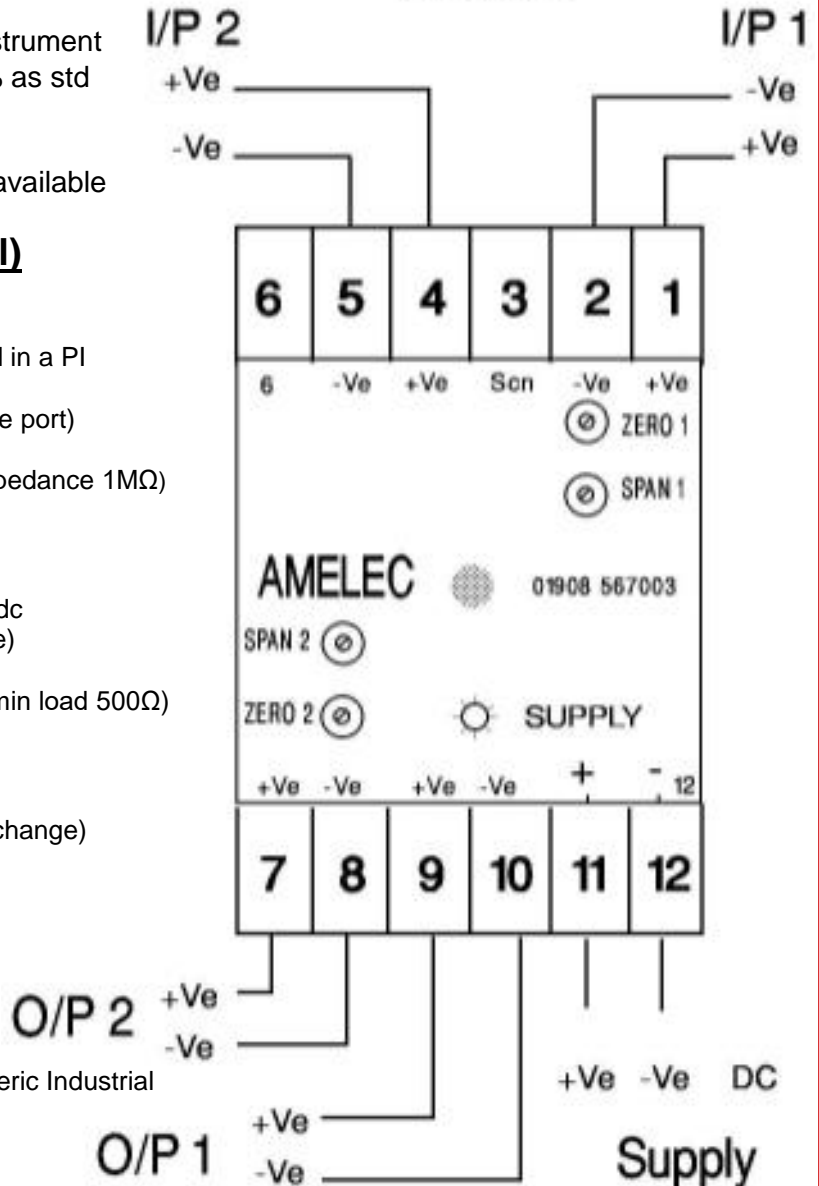
Options

'J': Input injection Jack(s) for external signal test injection without disturbing the input loop(s)
 'K': RF Immunity 80MHz-1GHz/5.6GHz, $\leq 30V/m$
 'HV' High Voltage input range(s), up to 500Vdc.

Din Rail (TS35) Enclosure Dimensions:

50w x 75h x 110d mm as std
 ('K' option enclosure= 50w x 75h x 182d mm)

WIRING



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