ADM231X Process I/V to RTD / Thermocouple Signal Splitter / Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Supply voltage options: 115Vac ±20%
  240Vac ±20%
  24Vdc ±10%
  48Vdc ±10%
- Non-Smart/Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input
Any current or voltage drive that can be terminated in a PI network to produce a 400mV span.
Current: up to 100mA max (Passive port)
Voltage: up to 200Vdc max as std

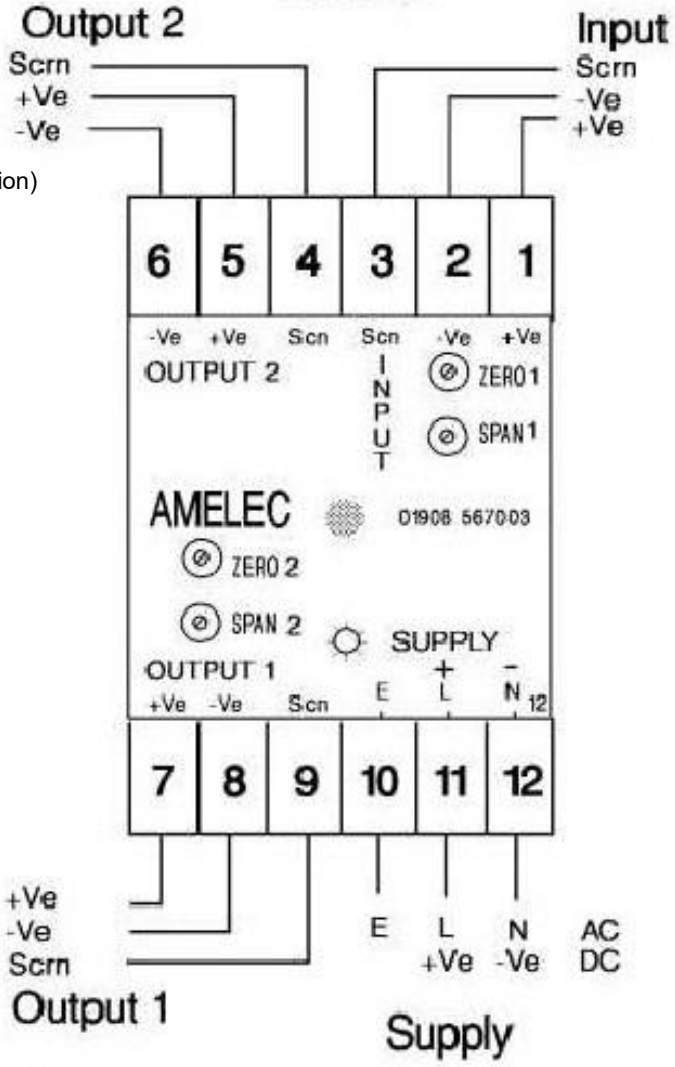
Output 1 & Output 2
(may be specified as either the same or different from each other)

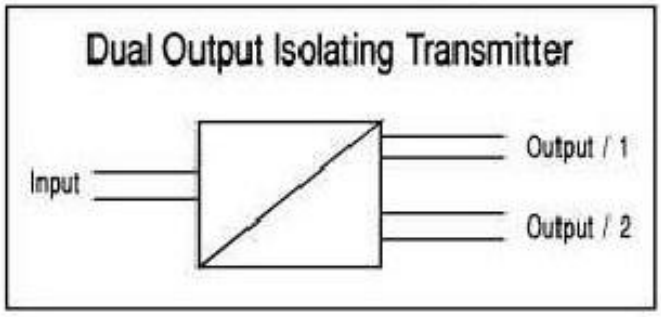
Either;
Current: up to 22mA max in std Source configuration
(100mA max in optional Sink port configuration)
Voltage: up to 10Vdc max as std.
Typically:4-20mA (max load 550Ω) or 0-10Vdc (min load 500Ω)
Or;
Isolated repeat of the RTD input signal. (Bulb Excitation current derived from existing controller or plc to be confirmed by way of a simple survey if not known)
RTD Extension wire to be used between the output terminals & original control system or device input port.
Or;
Isolated repeat of the input as a Thermocouple signal, with automatic cold junction compensation.
Type J, K, N, R, S or T type T/C's may be specified & the correct type Extension wire is to be used between the output terminals & original control system or device input port.

PERFORMANCE
Accuracy/Linearity: < ±0.1% span
Response time: <100mS (0-100% input step change)
Isolation: 1000V* RMS Input/Output/Output/Supply/Earth
*(500vdc when RFI protection option 'K' is specified)
Supply consumption: <3VA
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)
('K' option to highest Generic Industrial levels)

WIRING





MOUNTING / DIMENSIONS
Either Din Rail (TS35) ***or*** Surface by corner fixing holes as standard.

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

Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735
AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ