

ADM232 Process Signal Trip Transmitter/Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508) safety instrumented system (SIS) loop applications
- Supply voltage options:
 - 115Vac $\pm 20\%$
 - 240Vac $\pm 20\%$
 - 24Vdc $\pm 10\%$
 - 48Vdc $\pm 10\%$
- Non-Smart / Non-uProcessor based,,Type A instrument
- Digital Display available ('DI' option)
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- 24Vdc @22mA two-wire Input Excitation available ('M' option)
- HART loop signal compatibility available ('H' 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.

Typical examples; 0-1mA, 0-10mA, 4-20mA, 0-5V, 0-10V, 0-100V

Analogue Output

Any standard process current or voltage signal. Current source up to 20mA, with Drive voltage 11Vdc. Current sink up to 20mA, with External Drive $\leq 30Vdc$. Voltage source up to 10V, max current 20mA. Typically: 4-20mA (max load 550 Ω) or 0-10Vdc (min load 500 Ω).

Trip Output

A set of S.P.C.O contacts, rated 250VAC, 2A, 100VA (resistive) Latching relay option 'L' available with Local or Remote Reset. Red LED indication of Relay status, ON Energised/healthy, Extinguished in Trip/De-energised state as standard. (Red/Green BI-colour LED optional)

Performance

Isolation: 1000V RMS* Input/Output/Contacts/Supply/Earth
*(500Vdc when RFI protection option 'K' is specified)

Accuracy/Linearity: $\pm 0.1\%$

Trip settability: $\pm 1\%$

Trip repeatability: $\pm 0.1\%$

Deadband: 1% span as std (adjustable 1-20% span optional 'V')

Response time: <100mS as std (0-100% input step change)

Supply consumption: <4VA

Input O/C response: Downscale drive as standard

(O/C Upscale drive option 'X' available if required)

Fail Safe Relays: De-energise on Trip & Loss of Power as std

Environmental Conditions

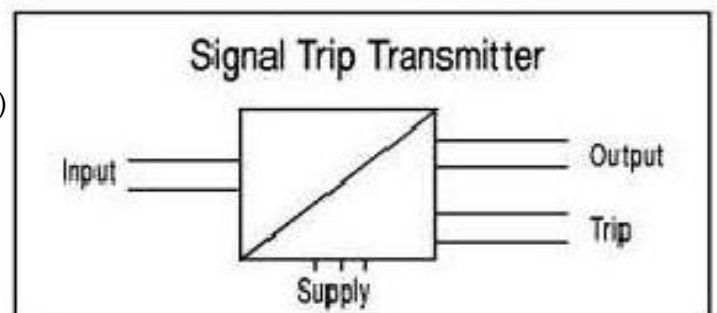
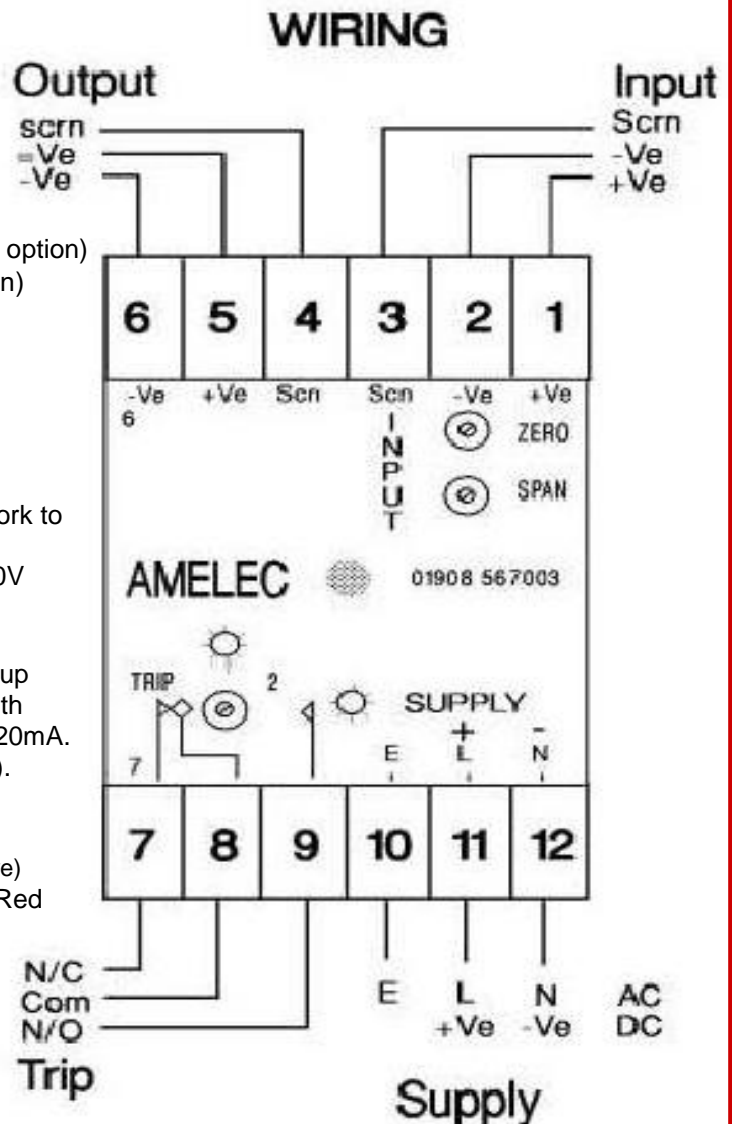
Storage Temperature: -40 to 70°C

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)



Mounting / Demensions

Either Din Rail (TS35) **or** Surface by corner fixing holes in standard 50w x 75h x 110d mm enclosure.

('DI' option = 145d mm, 'K' option = 182d mm)

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