

ADM232-HV Process Signal Trip Transmitter/Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options:
 115Vac $\pm 20\%$
 240Vac $\pm 20\%$
 24Vdc $\pm 10\%$
 48Vdc $\pm 10\%$
 (with Amber LED **ON** indicator)
- 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)
- HART loop signal compatibility available ('H' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

High DC Voltage signals, from 300V up to 1200V may be specified.

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 ≤ 30 Vdc. 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) as std. 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: 1500Vdc Input / (output/supply/earth)
 1000V RMS* 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)

(High Speed response <20ms option 'HS' available)

Supply consumption: <4VA

Input O/C response: Downscale drive as standard

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

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

Environmental Conditions

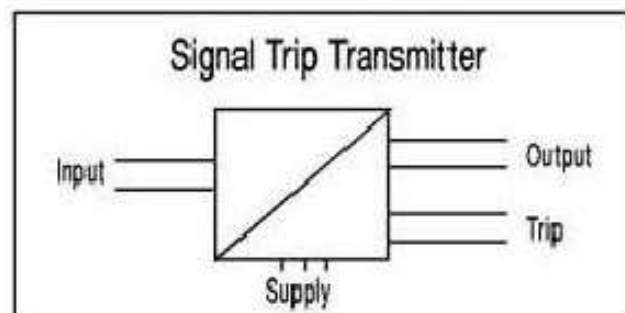
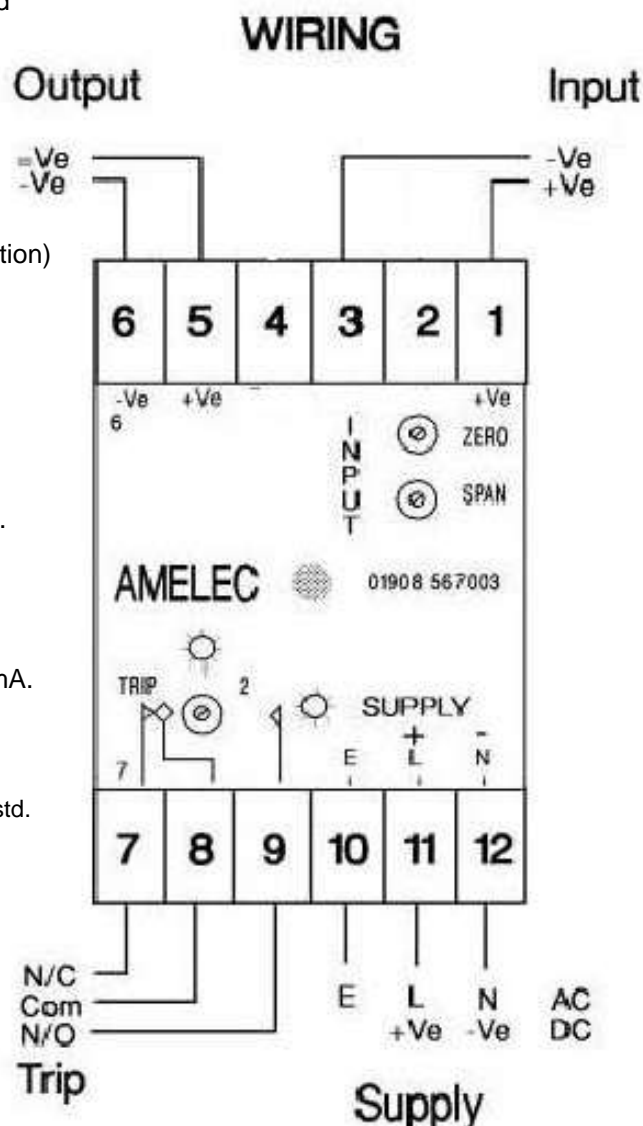
Storage Temperature: -40 to +70°C

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 higher 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)

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