

ADM232DI (BI)(M)(V)(L)(X)(K) Process Trip Transmitter with Display

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Non-Smart/Non-uProcessor based instrument (Type A)
- Supply voltage options:

115Vac	±20%
240Vac	±20%
24Vdc	±2.5V
48Vdc	±5V
- RFI Protection to EN 61000-4-3:2006/A2:2010 optional ('K')
- 24Vdc @22mA two-wire Input loop Excitation optional ('M')
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any standard process current or voltage (DC) signal that can be terminated in a PI network to produce a 400mV span

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 ≤30Vdc. Voltage source up to 10V, max current 20mA.

Trip Output

A set of double pole changeover contacts, rated at 250VAC, 3A, 100VA (resistive). Latching relay option 'L' available with Local or Remote Reset. Red LED indication of Relay status, ON Energised/ Extinguished in Trip De-energised state as standard. (Red/Green BI-colour LED optional)
 Display of the Process Input on front fascia 3½ digit LCD as std, with up to 4½ digit Red LED Display option available.
 Read button or Toggle switch shows the trip set point on the display

Isolation

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

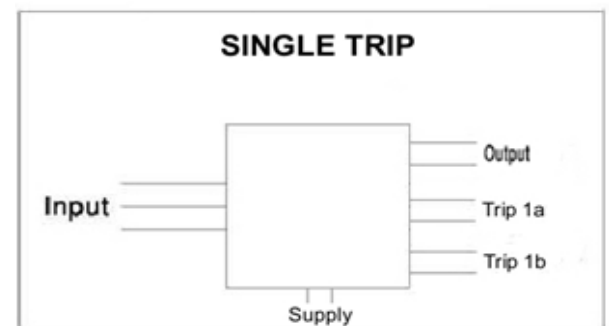
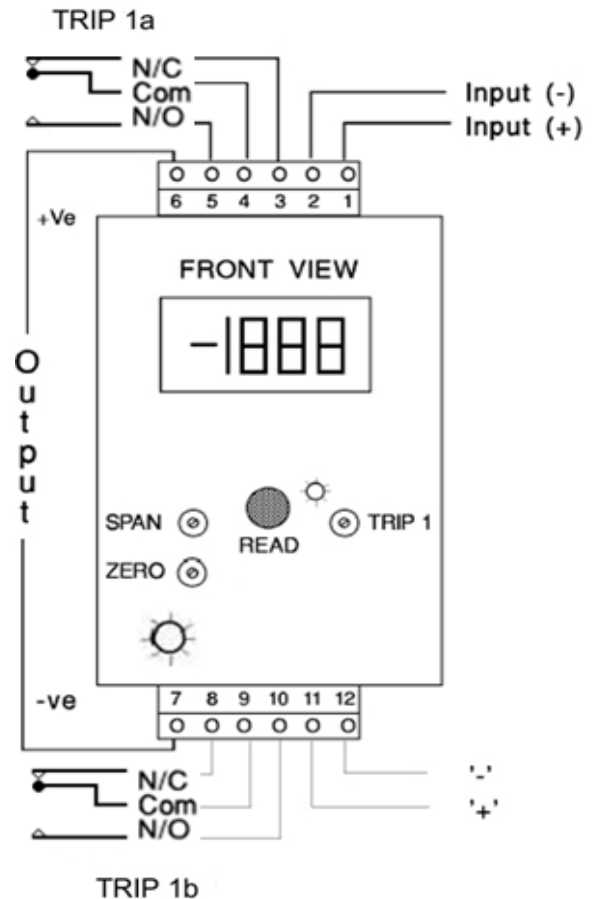
Performance

Accuracy/Linearity: ±0.1%
 Trip settability: ±0.1%
 Trip repeatability: ±0.1%
 Deadband: 1% span as std (adjustable 1-20% span optional 'V')
 Response time: <100mS as std
 Supply consumption: <4VA
 Input O/C response: Downscale drive as standard
 (O/C Upscale drive option 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
 EMC: 2014/30/EU, EN 61326-1:2013
 ('K' option to the highest Generic Industrial levels)

WIRING



Mounting/Dimensions

DIN Rail (TS35) as standard
 Enclosure Dimensions: 50w x 75h x 146d mm.
 ('K' option enclosure = 182d mm)

Surface by seismic keyhole plate (50w x 130h mm)
 & front of panel mounting options also available

Customer connections via screw terminal blocks
 towards rear of enclosure (Fixed or plug-in optional)

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