

ADT132KXTVP (AMS 19-17786/1-8) Process Trip Amplifier

- Suitable for SIL 1 or SIL 2 rated (EN 61508-2) 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
- RFI Protection to EN 61000-4-3:2006/A2:2010
- LCD/LED Digital Display options available ('DI' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

0-5Vdc in this application

Trip 1, Low Level Alarm

Relay Energises on Trip/ below set point, adjustable over the input range via Trip1 potentiometer (Factory set @0.25V in this application)
Red LED relay status indicator illuminates in Trip/Energised state.

Adjustable 0.5-20% span hysteresis on Trip1 via DB1 potentiometer (Factory set @2% in this application)

Trip 2, Loss of Input Loop Alarm

Relay Energises for healthy input signal, De-energises in O/C condition
Green LED healthy loop status indicator Extinguishes in Trip-O/C state.

Relay Outputs

Each trip output is a set of SPCO contacts, rated at 250VAC, 2A, 100VA resistive as std.

Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: <100mS (0-100% step change)
Time Delay: Fixed nom 1 Second delay into Low Trip1
Input Open Circuit response: Output relays De-energise, (internal O/C Upscale drive option fitted in this application)

Protection

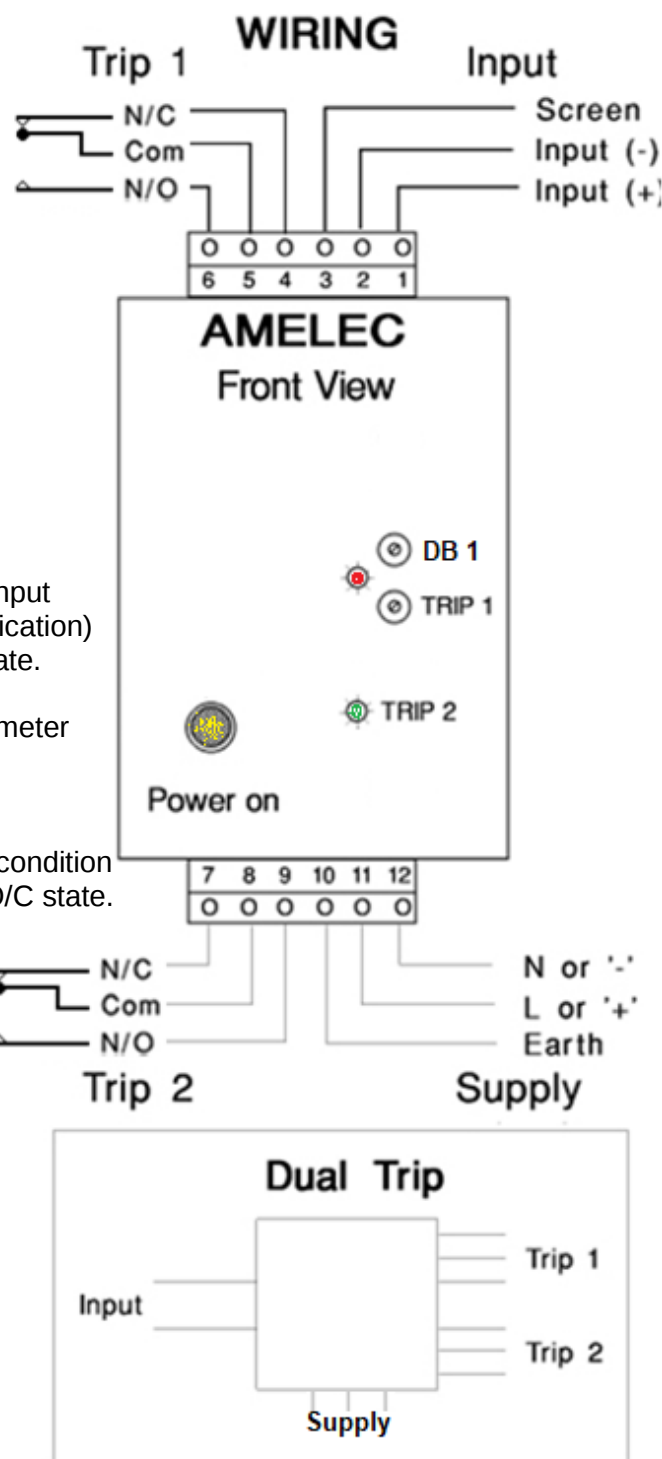
Isolation: 500Vdc Input/Contacts/Contacts/Supply/Earth
RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz/1.75GHz $\leq 40\text{V/m}$)

Environmental Conditions

Storage Temperature: -40°C to $+70^{\circ}\text{C}$
Operating Ambient: -15°C to $+55^{\circ}\text{C}$
Relative Humidity: 5 – 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)

Enclosure/ Case Dimensions

50w x 75h x 182d mm



Mounting Options

Front of Panel mounting in this application;
Bezel Dimensions 57w x 96h mm
(Panel cut-out Dimensions: 51w x 76h mm)

Heavy duty Din Rail (TS35) or Surface by Seismic
Keyhole plate options also available.
(rear mounting plate Dimension: 50w x 130h 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