

ADT151DI AC Voltage/Current Trip Amplifier with Display

- Suitable for SIL 1 & SIL 2 rated (EN 61508) Safety Instrumented System (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options: 115Vac $\pm 20\%$
230Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- Non-smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option; Generic Industrial EMC/EMI/RFI protection)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Typically 0-50V up to 300V, 0-100mA up to 0-5Amp AC ranges (ranges up to 10Amp AC max available at no extra cost)

Relay Output

Fail Safe, De-energise on Trip & Loss of power as standard. A set of double-pole changeover (D.P.C.O) contacts, rated at 250VAC, 3A, 100VA (resistive). Red LED indication of Relay status; illuminated when Energised healthy, Extinguished when De-energised in Trip state. Trip configuration may be specified as either High or Low.

Display

Continuous indication of the input signal on a 3½ digit LCD Front Fascia Display as standard. (up to 4 digit Red LED Display option also available on request). Front fascia Read button or Toggle switch shows the Trip point Setting within the calibrated range. (Calibration Range as either 0-100.0% or in Engineering units anywhere between -1999 to +1999 to suit the application).

Performance

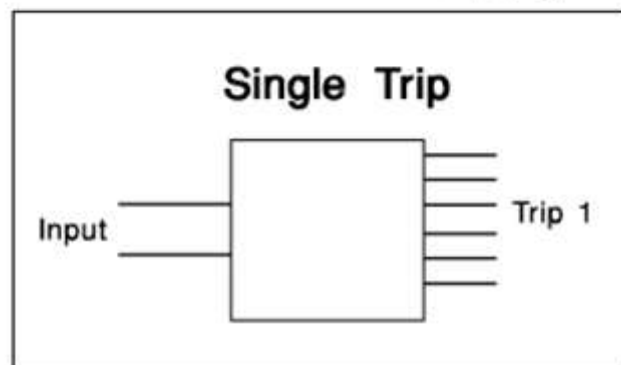
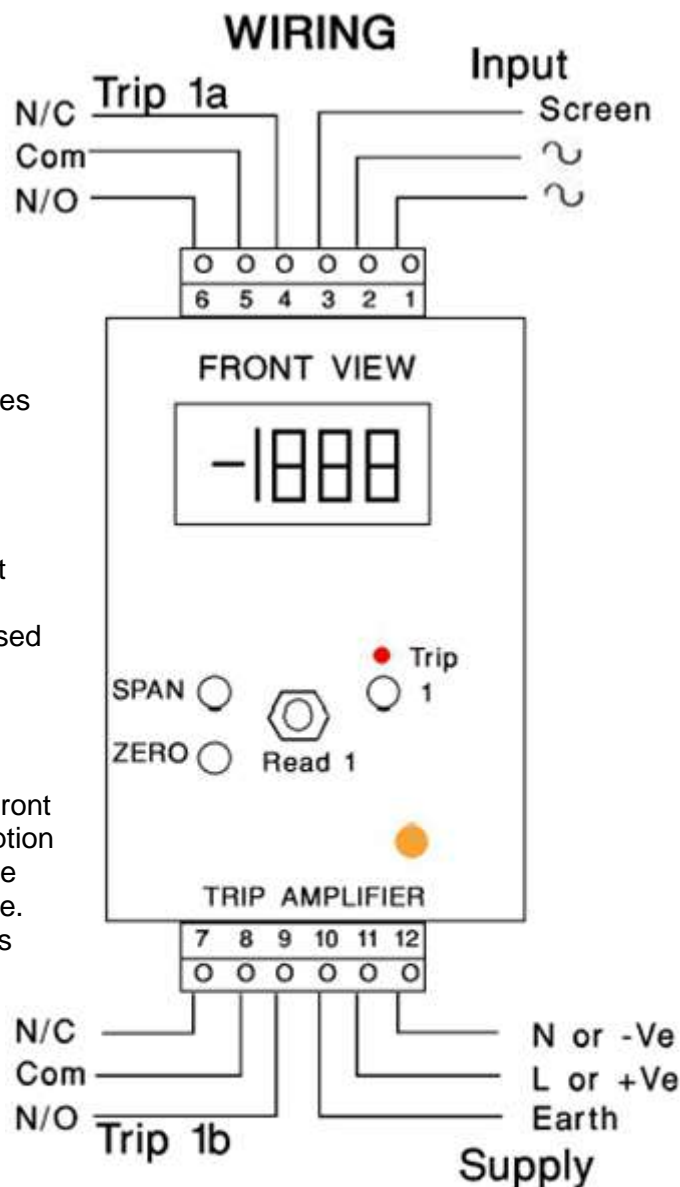
Trip settability: $\pm 0.1\%$
Trip repeatability: $\pm 0.1\%$
Response time: <400mS (0-100% input step change)
Isolation: 1000V RMS Input/Contacts/Supply/Earth
Input Open circuit response Downscale as standard
Deadband: Fixed 1% span hysteresis as standard
(1-20% span Variable hysteresis: 'V' option 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)

Dimensions/Mounting

50w x 75h x 145d mm / Din Rail (TS35) mounting
(RFI 'K' option enclosure = 182d mm)
(Front of panel mounting option 'P' also available on request)



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