

ADT152DI AC Voltage/Current Trip Amplifier with Display

Suitable for SIL 1 & SIL 2 rated (EN 61508) Safety Instrumented System (SIS) loop applications, as 1001 architecture (HFT:0)

Supply voltage options: 115Vac ±20%

> 230Vac ±20% 24Vdc ±10% 48Vdc ±10%

Non-smart / Non-uProcessor based, Type A instrument

RFI Protection to EN 61000-4-3:2006/A2:2010 available

AMELEC Standard 10 year warranty

Technical Specifications

Typically 0-50V up to 300V, 0-1A or 0-5Amp AC ranges (0-10mA up to 10Amp AC ranges available at no extra cost)

Relay Outputs

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

Continuous indication of the input signal on a 3.5 digit LCD Front Fascia Display. Read button shows the trip point setting within the calibrated range as either 0-100.0 (%) or in Engineering units (Calibration Range anywhere between: -1999 to +1999)

4.0 or 4.5 Digit red LED Display options are also available if preferred, with set points viewable via front fascia toggle switch.

Performance

Trip settability/repeatability: ±0.1% Response time: <400mS

Isolation: 1000V RMS* Input/Contacts/Contacts/Supply/Earth

*(500Vdc when 'K' option is specified)

Input Open circuit response Downscale as standard Deadband: Fixed nom 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

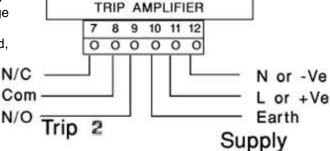
Relative Humidity: 5 – 95% RH (Non-Condensing) EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM) ('K' option to the highest Generic Industrial levels)

Dimensions/Mounting

50w x 75h x 145d mm / Din Rail (TS35) mounting ('K' option enclosure = 182d mm)

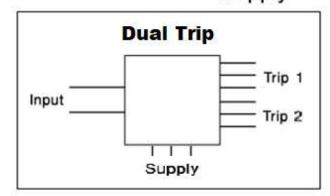
Front of panel mounting option also available on request

WIRING Input N/C Trip 1 Screen Com: N/O · 000000 5 4 3 2 FRONT VIEW



Read 2

Trip



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