

## ADT152DI 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)
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

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.

#### Display

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:  $\pm 0.1\%$   
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

