

## ADT131X DC Supply Monitoring Trip Amplifier

- Suitable for SIL 1, 2 or 3 rated (IEC61508) safety system applications
- Supply voltages: 115Vac  $\pm 20\%$   
240Vac  $\pm 20\%$   
24Vdc  $\pm 2.5V$   
48Vdc  $\pm 5V$   
12Vdc  $\pm 1.2V$
- RFI Protection to IEC61000-4-3 available
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

10V – 30Vdc monitoring range as standard,  
10V – 50Vdc / 10V – 150Vdc options available.

#### Output

In a typical 24Vdc supply monitoring application, the Trip relay will De-energise and the Red LED relay Status indicator will Extinguish when the input exceeds the level set on TRIP 1 (nom. 26Vdc) and return to normal when it falls back 1% below the set point.

The output relay will also De-energise if the supply voltage being monitored drops too Low (<10Vdc), as well as for Loss of primary supply or input open circuit conditions.

Relay contacts: D.P.C.O. 250Vac 2A 100VA resistive

#### Isolation

1000V RMS\* Input/Output/Supply/Earth  
\*(500Vdc if RFI protection option 'K' is specified)

#### Digital Display, option 'DI' available

Provides continuous indication of the DC Supply level being monitored. Operating front fascia pushbutton allows the Trip set point to also be viewed.  
3.5 Digit Liquid Crystal Display as std, although a 4 Digit Red LED Display option is also available.

#### Environmental Conditions

Storage Temperature: -40 to 70°C  
Operating Ambient: -15 to 55°C  
Relative Humidity: 5 – 95% RH

#### Dimensions

50w x 75h x 110d (mm) standard enclosure  
50w x 75h x 145d (mm) 'DI' option enclosure  
50w x 75h x 182d (mm) 'K' option enclosure

### WIRING

