

## ADT172 Strain Gauge Dual Trip Amplifier

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply Voltage options:
  - 20Vac  $\pm 20\%$
  - 115Vac  $\pm 20\%$
  - 230Vac  $\pm 20\%$
  - 24Vdc  $\pm 10\%$
  - 48Vdc  $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- Front fascia Digital Display available ('DI' Option)
- Non-Smart/Non-uProcessor based Type A instrument
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

Any mV signal range from a Strain, Load or Pressure sensor, with Minimum Span 4mV.

Excitation 10Vdc at up to 30mA as standard.

(Other excitation voltages available on request)

#### Output

TRIP 1 Relay output is a C.O contact, TRIP 2 Relay output is a S.P.C.O contact set, rated at 250VAC, 2A, 100VA resistive.

Red LED indication of each relay contacts status; **ON** Energised/healthy, Extinguished in Trip / De-energised state as standard.

#### Isolation

1000V RMS\* Input/Contact/Contacts/Supply/Earth  
 \*(500Vdc when option 'K' is specified)

#### Performance

Trip settability:  $\pm 1\%$

Trip repeatability:  $\pm 0.1\%$

Response time: <100ms

Deadband: 1% Span as std.

(Variable 0.5%-20% hysteresis available - 'V' option)

Input Open Circuit response: Upscale drive as std

(O/C Downscale drive may be requested)

#### 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)

#### Enclosure Dimensions / Mounting

50w x 75h x 110d mm ('K' option = 182d mm)

Din Rail (TS35) or Surface by corner fixing holes.

('K' option: Din Rail or Surface by Keyhole plate)

