

## ADT133 Dual Channel Process I/V Trip Amplifier

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- 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 option 'K' available (20-3000MHz 10V/m, 20-1000MHz 30V/m)
- Front fascia Digital Display available ('DI Option)
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input (Per Channel)

Any current or voltage drive that can be terminated in a PI network to produce a 400mV span (Common 0V).  
Typical inputs: 4-20mA, 0-10mA, 1-5Vdc or 0-10Vdc

#### Output (Per Channel)

Each Trip output is a set of changeover contacts (S.P.C.O) rated at 250VAC, 2A, 100VA resistive.  
Fail Safe Relays De-energise on Trip & on loss of power as std  
Red LED indication of relay status; ON Energised/healthy, Extinguish in Trip/De-energised state.

#### Isolation

1000V RMS\* Inputs/Contacts/Contacts/Supply/Earth  
\*(500Vdc if RFI option 'K' is specified)

#### Performance

Trip settability:  $\pm 1\%$   
Trip repeatability:  $\pm 0.1\%$   
Response time: <100mS (0-100% input step change)  
Deadband: 1% Span hysteresis as std.  
Input O/C response: Downscale drive as std.

#### 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

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

#### Mounting

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

### WIRING

