

ADT139XL Process Deviation / Differential Trip Amplifier

 Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0)

• Supply Voltage options: 20Vac <u>+</u>20%

115Vac ±20% 230Vac ±20% 24Vdc ±10% 48Vdc ±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, Type A instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Modulus Input(s)

Any current or voltage drives that can be terminated in a PI network to produce 400mV spans. Inputs share a common internal 0V reference, so should be isolated from each other at source as std.

Latching Output Trip Relay Contacts

Modulus Trip Relay output is a set of D.P.C.O contacts, rated at 250VAC, 2A, 100VA resistive.

TRIP = either input A>B or B>A, with a 0.5-50% span Deviation set point adjustable via the front fascia 15-turn blindset potentiometer, Red LED indication of relay status: *ON* Energised / healthy, *Extinguished* in Trip / De-energised state as std. (Other special Customising options are available on request)

Trip Relay RESET

Via front fascia Pushbutton, once process conditions are healthy

Isolation

1000V RMS* Input(s)/Contacts/Supply/Earth
*(500Vdc when RFI protection option 'K' is specified)

Performance

Trip settability: ±0.5%
Trip repeatability: ±0.1%

Response time: <100mS (0-100% input step change) (Higher Speed <50mS response 'HS' option available)
Deadband: 1% span hysteresis as std

Input O/C Response: Downscale drive

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 EMC/EMI/RFI Generic Industrial levels)

Mounting / Dimensions

Din Rail (TS35) **or** Surface by corner fixing holes as std 50w x 75h x 110d mm enclosure

('DI' option enclosure =145d mm, 'K' option = 182d mm)

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