

# **ADT139X-M2-AO-DC Deviation Trip / Differential Transmitter**

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument: ✓
- Supply Voltage options: 24Vdc ±10% or 48Vdc ±10%
- Amelec Standard 10 year warranty

# Inputs (2 x 4-20mA)

The Active input ports each include the two-wire loop Excitation voltage (24Vdc @22mA) to power the field transmitters.

The inputs share a Common internal 0V reference, so should be isolated from each other at source as std.

## **Trip-Relay Outputs**

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

TRIP 1 = A>B High, TRIP 2 = A>B Low, with Deviation set points adjustable via 15-turn blindset potentiometers,

Red LED indication of each relay status: **ON** Energised / healthy, Extinguished in Trip / De-energised state 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)

#### **Analogue Output-Retransmission**

Any standard process current or voltage signal to represent the input Differential (A-B);

Current source up to 22mA max, with drive voltage 24Vdc

(Current Sink option available on request, 30Vdc max external drive)

Voltage source up to 20V max output

Typical Output: 4-20mA (max load 1200 $\Omega$ ) or 0-10Vdc (min load 500 $\Omega$ )

#### **Performance**

Isolation: 1000V RMS -

Inputs/Output/Contacts/Contacts/Supply

Accuracy/Linearity:  $\pm 0.1\%$ Trip settability:  $\pm 1\%$ Trip repeatability:-  $\pm 0.1\%$ 

Deadband: nom 1% span hysteresis
Response time: ≤200mS (0-100% Step)
Input O/C response: Downscale drive as std

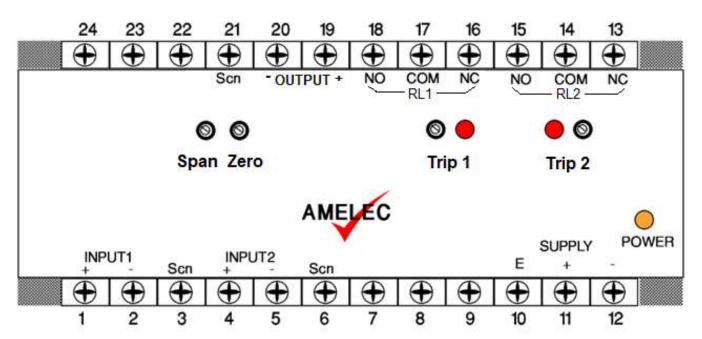
Supply consumption: <4VA

### **Mounting / Dimensions**

Din Rail (TS35)

Enclosure: 152w x 137d x 81h mm

# <u>Wiring</u>



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