

ADM233X-3 Process Signal Trip-Transmitter

- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- Suitable for SIL 1 & SIL 2 rated (IEC61506) Safety Instrumented System (SIS) Loop applications, as 1oo1 architecture (HFT:0)
- Front Fascia Digital Display option 'DI' available
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any current or voltage (DC) signal that can be terminated in a PI network to produce a 400mV span.
Typical Input options: 0-10mA or 4-20mA (impedance 40 Ω or 20 Ω),
0-1V, 0/1-5V or 0-10Vdc (impedance 1M Ω)

Trip Outputs

Each trip output is a set of changeover contacts, rated at 250VAC, 2A, 100VA (resistive).
Relays De-energise on Trip, Red LED indicators extinguish as std.

Analogue Output

Any std process current or voltage signal range may be specified;
Current source up to 20mA. Drive voltage 11Vdc
Current sink up to 20mA. 30Vdc max External Drive
Voltage source up to 10V. Max current 20mA

Operation

1 x isolated Analogue Output / repeat of input signal.
3 x Adjustable Alarm/Trip set points over the full input range, set by way of 15-turn blindset potentiometers through unit front fascia.
High (rising) &/or Low (falling) trip actions may be specified.
Red LED relay status indicator for each trip point on front fascia;
ON Energised/healthy, **Extinguished** in Trip/De-energised state.
(Latching relay(s) option 'L' available, with local front fascia pushbutton or remote contact Reset facility)
Amber Power **ON** indicator on front fascia, **Extinguished** on Loss of power.

Performance

Accuracy/Linearity: $\pm 0.1\%$
Trip settability: $\pm 1\%$ ('DI' option $\pm 0.1\%$)
Trip repeatability: $\pm 0.1\%$
Deadband: nom. 1% hysteresis as std
(1-20% span Variable hysteresis option 'V' available)
Response time: <100mS as std (0-100% Step change)
Input O/C response: Downscale drive as std
(O/C Upscale drive option 'X' available)
Supply consumption: $\leq 4VA$

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)

Isolation

1000V RMS. Input/Output/Contacts-Contacts/Supply/Earth

Mounting / Dimensions

Din Rail (TS35) Enclosure: 152w x 81h x 137d (mm)

