

ADM241DIX Resistance Transmitter

- Suitable for Any Resistance / Potentiometer
- Supply voltage: 24Vdc / 48Vdc / 110Vac / 230Vac
- RFI protection to IEC61000-4-3
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

- Any application where resistance or potentiometer is required to be isolated & split for re transmission.

TECHNICAL SPECIFICATION

INPUT

Any resistance / Potentiometer can be specified in the range of: 10 ohms to 100K ohms

OUTPUT

DC current or voltage specified in the range of:
Current up to 100mA max in Sink configuration (externally powered)
Current up to 22mA max Source configuration (Internally powered)
Voltage any from 0.4 to 20V max @ up to 5mA per output.
Typical output range: 4 - 20mA (Source)

CONTROLS

Zero / Span: 15 turn potentiometer.

INDICATOR

Power ON: LED, Amber.
Input signal: 3.5 Digit LCD display, any engineering units can be specified in the range of -1999 to +1999. Default calibration is 0 to 100.0(%). Character size 9.4mm.

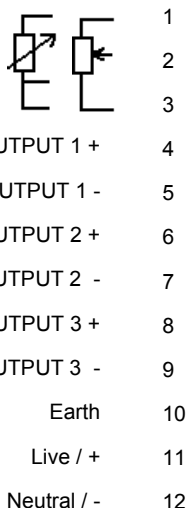
PERFORMANCE

Linearity: < $\pm 0.1\%$
Response time: Typically < 400ms
Accuracy: < $\pm 0.1\%$

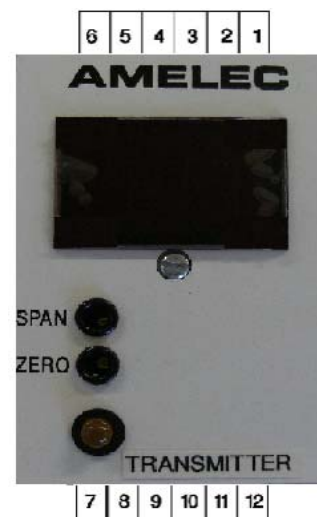
PROTECTION

Isolation 1000V RMS: IP/(OP1+OP2+O/P3)/Supply/Earth
Internal Fuse.
Input over range up to typically 300%.

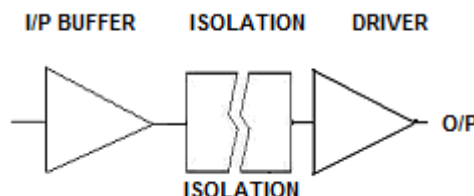
TERMINATION



FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 182d
Mounting: Din rail / Surface (optional Panel Mount)
Weight < 500g

ADD ON / OPTIONS

J : Input injection jack socket
P: Test point (Trip set point monitoring)
Non standard Power supply ranges available