

ADM241X Thermistor Transmitter/Splitter

- AC Supply voltage options: 115Vac / 230Vac +/-20%
- 24Vdc supply option available
- Amelec standard 10 year warranty
- Suitable for SIL 1, 2, & 3 (IEC 61508-2) safety system loop applications

APPLICATION

- Resistance/Thermistor signal Repeat / Splitter
- Signal Isolator / Noise filter
- Signal converter to resolve incompatibility.

TECHNICAL SPECIFICATION

INPUT

Two wire Thermistor/ Resistance input.

Note: Excitation for the sensor will be from the device connected to output 1.

OUTPUT 1

Non-Isolated straight through connection of input signal.

OUTPUT 2

DC current or voltage specified in the range of: Current up to 100mA max in Sink configuration (externally powered)

Current up 22mA max Source configuration (Internally powered)

Voltage any from 1 to 10Vdc max @ up to 5mA per

Typical output range: 0 - 10Vdc or 4-20mA

CONTROLS

Zero / Span (+/- 20%): 15 turn potentiometers for output calibration.

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: < ±0.2%

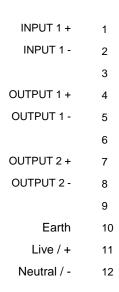
Response time: Typically < 400mS

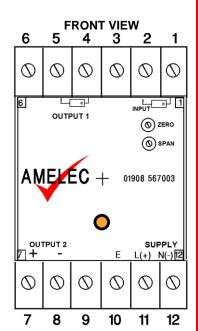
Accuracy: < ±0.2% (0.1% with 'G' option specified)

PROTECTION

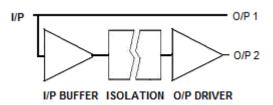
Input O/C drive Upscale Isolation 1000V RMS. Input+Output1/Output 2/Supply/Earth Internal Fuse. Input over range up to typically 300%.

TERMINATION





FUNCTION BLOCK DIAGRAM



ENVIROMENTAL 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 110d mm

Mounting: Din rail (TS35) or Surface by corner fixing holes

Weight < 200g

ADD ON / OPTIONS

DI: LCD display for local monitoring

P: Output Test point

K: Higher level of EMC/EMI-RFI protection

G: Linearisation to temperature

Non standard Power supply ranges available