

ADM221X RTD Transmitter/Splitter

- Supply voltage: 115Vac / 230Vac
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

- RTD Repeat / Splitter
- Signal Isolator / Noise filter
- Signal converter to resolve incompatibility.

TECHNICAL SPECIFICATION

INPUT

Two or Three wire PT100 RTD. Minimum input range 100 Deg C.

Note: 1mA Excitation for the RTD will be from the device connected to output 1 (PLC/Controller/etc).

OUTPUT 1

Non-Isolated straight through connection of input signal.

OUTPUT 2

Any standard process current or voltage
Current source up to 20mA. Drive Voltage source up to 10V. Max current 20mA.

CONTROLS

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

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

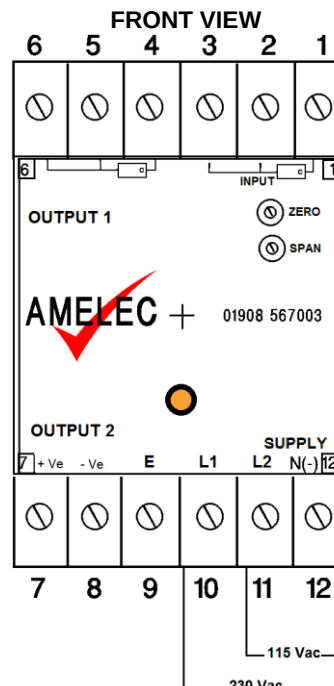
Linearity/Accuracy: < $\pm 0.1\%$ resistance span.
Response time: Typically < 400mS

PROTECTION

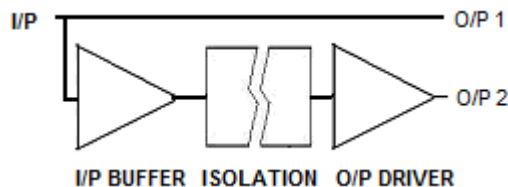
Input O/C drive Upscale
Isolation 1000V RMS.
Input+Output1/Output 2/Supply/Earth
Internal Fuse.
Input over range up to typically 300%.

TERMINATION

Input	1
Input	2
3 rd Wire	3
OUTPUT 1	4
OUTPUT 1	5
3 rd Wire	6
OUTPUT 2 +	7
OUTPUT 2 -	8
Earth	9
Live 1	10
Live 2	11
Neutral / -	12



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 110d
Mounting: Din rail / Surface (optional Panel Mount)
Weight < 200g

ADD ON / OPTIONS

DI: LCD display for local monitoring
J : Input injection jack socket
P: Test point
K: Higher level of RFI protection (Up to 10V/mtr)
Non standard Power supply ranges available