

ADM221X-1X RTD Signal Splitter with Dual Isolated Outputs

- Suitable for SIL 1 & SIL 2 rated (EN 61508) Safety Instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any 2/ 3-Wire RTD BS1904, PT100, PT130, PT500, PT1000 with a temp span $\geq 25^{\circ}\text{C}$ may be specified. (nom 0.6mA Excitation)

Output 1

Isolated repeat of the RTD input signal. (Excitation current being derived from the existing or new RTD input controller or plc is to be confirmed by way of a simple survey if not known)

RTD Extension wire should be used between the output1 terminals & the original or new control system device input port.

Output 2

Any standard process Current or Voltage combinations;
Current source up to 20mA, with Drive voltage 12Vdc
Voltage source up to 10Vdc as std

Performance

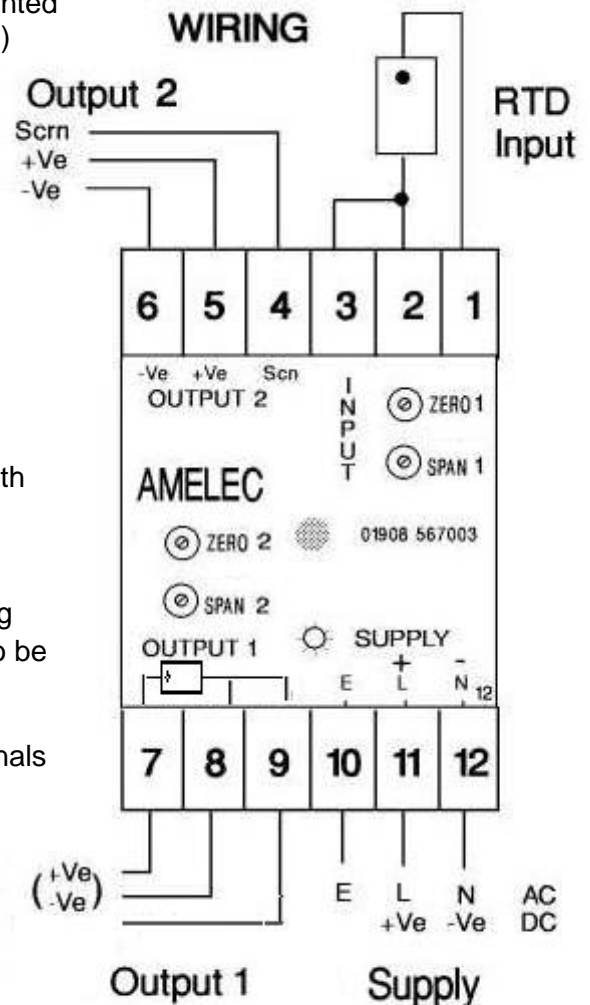
Accuracy/Linearity: $\leq \pm 0.1\%$ resistance span
Isolation: 1000V RMS*. Input/Output1/Output2/Supply/Earth
*(500Vdc if RFI option 'K' is specified)
Input O/C response: Upscale drive as std
(O/C response Downscale drive option available if required)
Response time: Typically $< 200\text{ms}$
Supply consumption: 3VA

Environmental Conditions

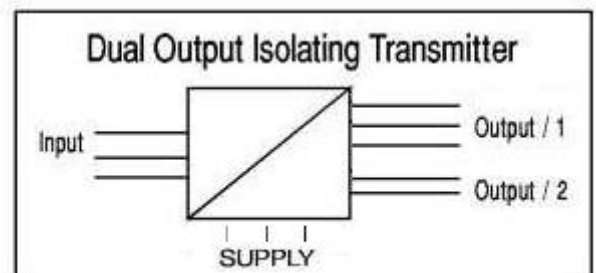
Storage Temperature: -40 to $+70^{\circ}\text{C}$
Operating Ambient: -15 to $+55^{\circ}\text{C}$
Relative Humidity: 5 – 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)
('K' option to the highest Generic Industrial levels, with
RF Immunity: 20MHz-3GHz/5.25GHz 10V/m,
80MHz-1GHz/5.6GHz 30V/m, 889MHz/1.75GHz 40V/m)

Protection

Internal Fuse.
Input over range up to typically 300%.



W- 50 H- 75 D- 110 (mm)



Mounting

Std enclosure: Din Rail (TS35) **or** Surface by corner fixing holes.
K option enclosure: Din Rail (TS35) or Surface by seismic Keyhole plate (50w x 130h mm).

Dimensions

Standard enclosure: 50w x 75h x 110d mm
(K option RFI enclosure: 50w x 75h x 182d mm)

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