

# ADM230X-4W Process I/V Signal to RTD Converter

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument

 Supply voltage options: 115Vac ±20% 240Vac ±20%

24Vdc ±10% 48Vdc ±10% 110Vdc ±10%

- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

## **Technical Specifications**

### <u>Input</u>

Any current or voltage (DC) drive that can be terminated in a PI network to produce a 400mV span.

Current from 1mA span, up to 100mA max input (passive port) Voltage from 0.4V span, up to 150Vdc max (impedance  $\geq$ 1M $\Omega$ )

Typical Input: 4-20mA (impedance  $20\Omega$ ) or 0-10Vdc (impedance  $1M\Omega$ )

#### Output

Isolated repeat of input as simulated RTD signal to remote equipment.

(RTD extension wire to be used between output terminals & the original temperature monitoring system / control device input port)

#### Performance

Accuracy/Linearity: <±0.1% Span Response Time: typically <100mS Supply consumption: <3VA

#### Protection

Isolation: 1000V RMS\* Input/Output/Supply

\*(500Vdc when 'K' option RFI protection is specified)

Internal Fuse

Input over range: up to typically 300%

Input Open Circuit response: Downscale drive as std

#### **Environmental Conditions**

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

EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)

('K' option: EMC/EMI/RFI protection to the highest Generic Industrial

Standards Test levels)

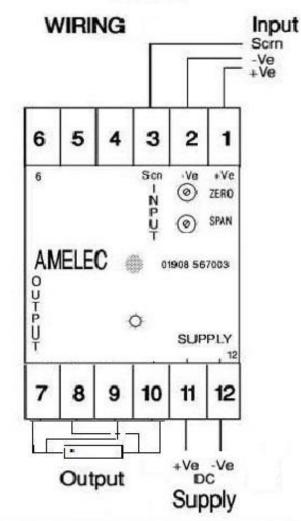
#### **Options**

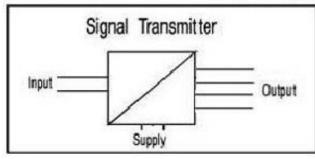
 $\overline{J}$  = Input jack for injecting an external signal into the input for proof testing, without disturbing the original process loop.

DI = 3½ digit Display: input or output in % or Engineering units to suit

**K** = RF Immunity: 20MHz-3GHz/5.25GHz <10V/m,

80MHz-1GHz/5.6GHz <30V/m, 889MHz/1.75GHz <40V/m.





Mounting: Either Din Rail (TS35) *or* Surface by corner fixing holes as standard

Dimensions: 50w x 75h x 110d mm

(**DI** option=145d mm, **K** option= 182d mm)

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