

ADM210 Thermocouple Signal Transmitter / Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 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

Input

Any mV signal developed from a thermocouple type; J, K, N, R, S, T, with a minimum 4mV span.
(Automatic cold junction compensation fitted as standard)

Output

Any standard process current or voltage in the range of;
Current source up to 22mA max, with drive voltage 24Vdc
(Current Sink option available, 30Vdc max external drive)
Voltage source up to 20V max output
Typical Output: 4-20mA (max load 1200Ω) or 0-10Vdc (min load 500Ω)

Performance

Accuracy/Linearity: <±0.1% mV Span
Response Time: typically <400mS
Supply consumption: <3VA

Protection

Isolation: 1000V RMS* Input/Output/Supply/Earth.
*(500Vdc when 'K' option RFI protection is specified)
Internal Fuse
Input over range: up to typically 300%
Input Open Circuit response: Upscale drive as std
(O/C response Downscale drive may be specified if preferred)

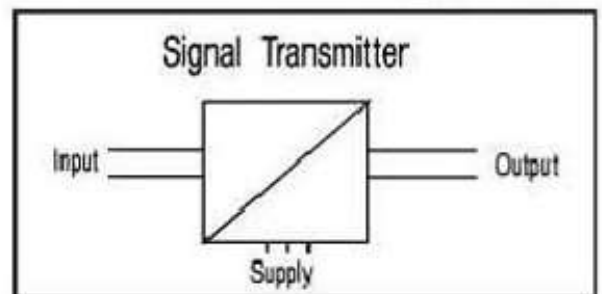
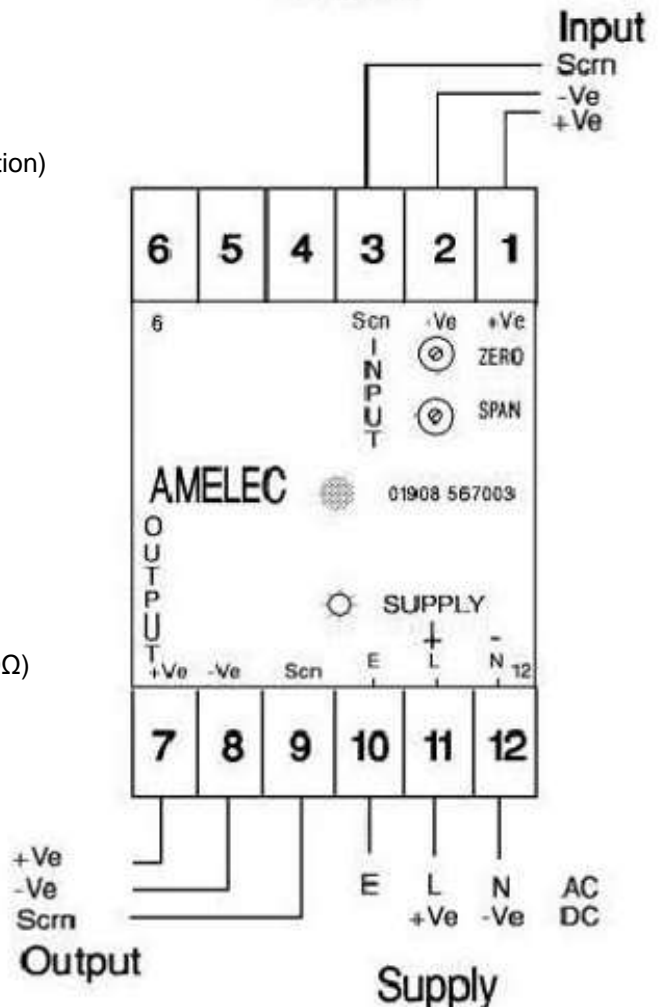
Environmental Conditions

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

X = Any 'Other' special customising or power supply option
G = Output Linearised to temperature
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.

WIRING



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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