

ASM210 Thermocouple Transmitter / Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) Safety Instrumented (SIS) System Loop applications
- Non-Smart / Non-uProcessor based, Type A instrument
- Supply Voltage options **24Vdc** $\pm 10\%$ or **48Vdc** $\pm 10\%$
- Amelec standard 10 year warranty

TECHNICAL SPECIFICATION

Input

mV signal developed from any thermocouple type; J, K, N, R, S or T, with a minimum 4mV span.

Automatic Cold Junction compensation as standard.

Output

The current source can be up to 20mA with a drive voltage of 20V. The voltage source can be up to 10Vdc, maximum drive 20mA.

The current output can be configured as a sink or source port by way of connection to the output terminals.
(Sink port: max 30Vdc external loop supply)

Typical Output: 4-20mA (max load 1200 Ω) or 0-10Vdc (min load 500 Ω)

Performance

Isolation: 1000V RMS Input/Output/Supply
 Accuracy/Linearity: $< \pm 0.1\%$ mV Span
 Response time: $< 200\text{ms}$
 Input Over range: $\leq 300\%$
 Input O/C response: Up or Downscale drive may be specified
 Controls: Zero/Span potentiometers ($\pm 20\%$ span adjustment)
 Indicator: Power ON (Amber LED)
 DC Supply variation: $\pm 10\%$
 Supply consumption: $< 3\text{VA}$

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

Dimensions

22.5w x 75h x 110d mm

