

## ASM210 Thermocouple 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 **24Vdc ±10%** or **48Vdc ±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 1000Ω) or 0-10Vdc (min load 500Ω)

#### Performance

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

#### 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)

#### Mounting / Dimensions

Din Rail (TS35)  
 Enclosure: 22.5w x 75h x 110d mm

