

ASM220 RTD Signal Transmitter / Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) Safety Instrumented (SIS) System Loop applications, as 1oo1 architecture (HFT:0)
- 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

From PT100 RTD sensor, 2 or 3 wire connection and any temperature range with a span greater than 30°C may be specified, as std.

(PT500 & PT1000 input options also available on request)

Typical Input

-20 to +30°C, 0-50°C, 0-100°C, or 0-150°C PT100, 3-wire connection

Input Open Circuit response: Upscale drive

Output

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

The current output can be configured as a Sink (TB8+/TB9-) or Source port (TB7+/TB8-) by way of connection to the output terminals.
(Sink port: max 28Vdc external loop supply)

Typical Output

Current 4-20mA (max load 1100Ω)
Voltage 1-5Vdc (min load 250Ω)
Voltage 0-10Vdc (min load 500Ω)

Isolation

1000V RMS Input/Output/Supply.

Accuracy/Linearity

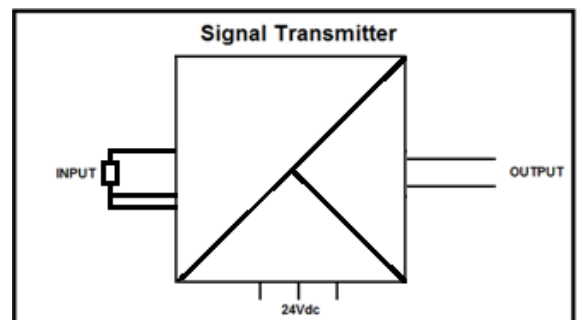
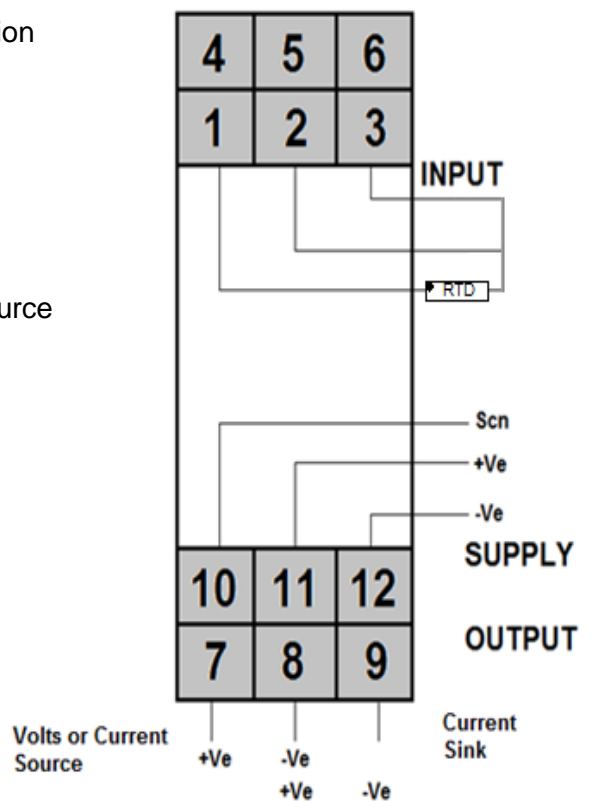
Linearity: $<\pm 0.1\%$ Span
Accuracy: $<\pm 0.1\%$ Span

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)

Dimensions

22.5w x 75h x 110d mm



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