

ASM311 Process Signal Scale & Bias Transmitter / Isolator

- Suitable for use as element in SIL 1 & SIL 2 rated (EN 61508) Safety 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

Any DC voltage or current process signals, which can be routed into a pi network to develop a 400mV span.

Typical Input ranges:

4-8mA, 8-16mA, 10-12mA, 10-0mA, 20-4mA, -10 to +10mA
-200mV to +200mV, -1 to +1Vdc, 5-1Vdc, 10-0Vdc, -10 to +10Vdc

Output

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

0-10mA, 10-0mA, 4-20mA, 20-4mA, -1 to +1Vdc, -10 to +10Vdc

Performance

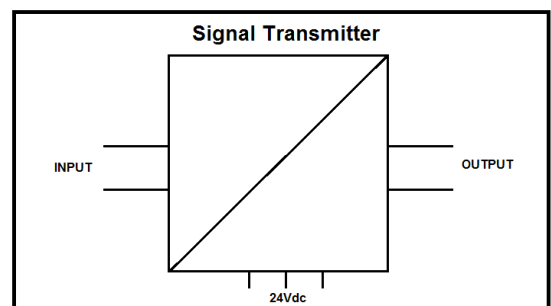
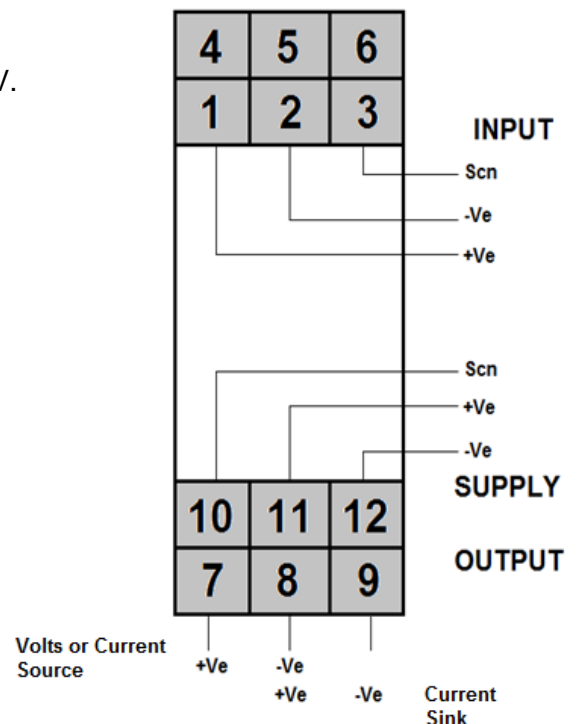
Isolation: 1000V RMS Input/Output/Supply
Accuracy: $\leq \pm 0.1\%$ Span
Linearity: $\leq \pm 0.1\%$ Span
Response time: $< 100\text{ms}$
Input Over range: $\leq 300\%$
Input O/C response: Downscale drive
Controls: Zero/Span potentiometers ($\leq 20\%$ span adjustment)
Indicator: Power ON (Amber LED)
DC Supply variation: $\pm 10\%$

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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