

ASM270 Strain Gauge 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** $\pm 10\%$ or **48Vdc** $\pm 10\%$ as std
(**12Vdc** $\pm 10\%$ or **9-18Vdc** options also available)
- Amelec standard 10 year warranty

TECHNICAL SPECIFICATION

Function

Provides a DC output signal proportional to a bridge type strain gauge utilised in load cells and pressure transducers.

Input

Any mV signal range (Minimum span: 4mV)

Excitation: 10Vdc at up to 30mA as std. (5V or 24Vdc options available)

Output

Any standard process current or voltage in the range of;
Current source up to 22mA max, with drive voltage 10Vdc
(Current Sink option available, 30Vdc max external drive)

Voltage source up to 12Vdc max output

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

Performance

Isolation: 1000V RMS Input/Output/Supply

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

Response time: $< 100\text{ms}$ (0-100% input step change)

Input Over range: $\leq 300\%$

Input Open Circuit response: Up or Downscale drive available
(O/C response requirement to be specified at time of orders)

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 $+70^\circ\text{C}$

Operating Ambient: -15 to $+55^\circ\text{C}$

Relative Humidity: 5 – 95% RH (Non-condensing)

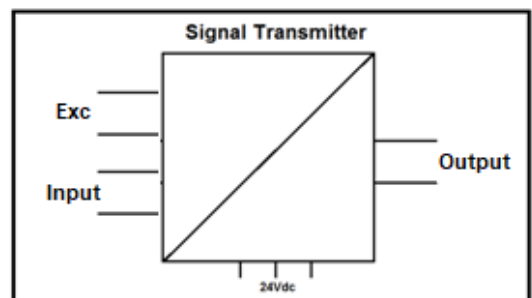
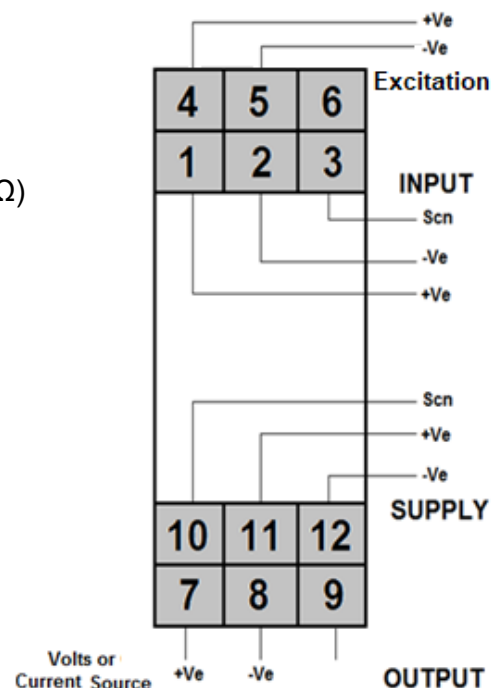
EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)

Mounting:

Din Rail (TS35)

Dimensions

22.5w x 75h x 110d mm



Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ