

ADM270DIX-20 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:

115Vac	±20%
240Vac	±20%
24Vdc	±10%
48Vdc	±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- Front fascia Digital Display (3.5 Digit LCD)
- AMELEC Standard 10 year warranty

Technical Specifications

Function

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

Input

0-20mV dc input span, (@ 2mV/V)
Excitation: 10Vdc at up to 100mA.

Output

0-20mA (max load 500Ω) or 0-10Vdc (min load 500KΩ)
Output can be Switched from one to the other by way of the lockable Toggle switch on unit front fascia.

Display of the input signal on the 3.5 digit front fascia LCD; 0.0-20.0 (mV)

Input Test pushbutton introduces a preset mV level, set by the blindset potentiometer through unit front fascia.

Performance

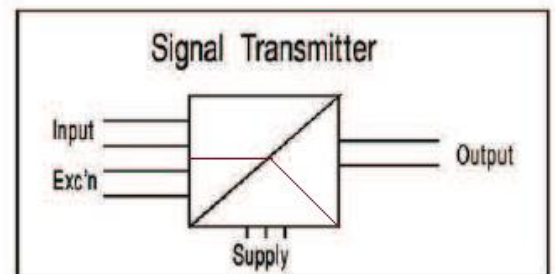
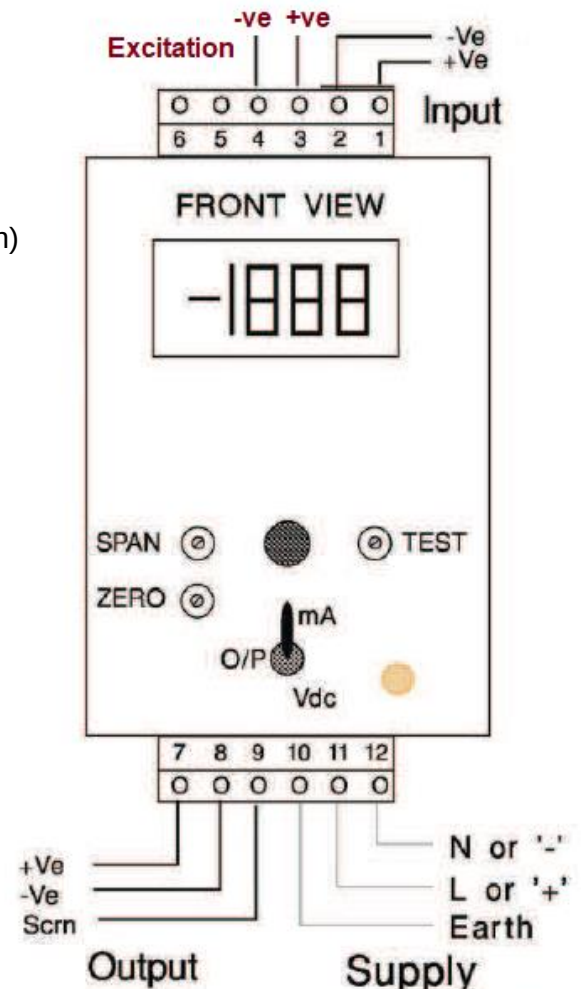
Accuracy/Linearity: $\leq \pm 0.1\%$ Span
Response Time: typically <400mS (0-100% input step change)
Supply consumption: <3VA

Protection

Isolation: 1000V RMS* Input/Excitation/Output/Supply/Earth
*(500Vdc when 'K' option RFI protection is specified)
Internal Fuse
Input over range: up to typically 300%
Input Open Circuit response: Upscale drive

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)
('K' option: EMC/EMI/RFI protection to the highest Generic Industrial Standards Test levels)
IP Rating: IP20



Mounting: Din Rail (TS35)

Dimensions: 50w x 75h x 145d mm

(K option enclosure = 50w x 75h x 182d 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