

ADM250 AC Current/Voltage Signal Transmitter / Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options:
 - 115Vac ±20%
 - 240Vac ±20%
 - 24Vdc ±10%
 - 48Vdc ±10%
 - 110Vdc ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- Non-Smart/Non-uProcessor based, Type A instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any Sinusoidal AC Voltage or Current signal.
 Voltage span range from 50mV up to 100V ac
 Current span range from 1mA to 200mA ac .
 Frequency range from 10 - 400Hz as std (up to 5000Hz available)
 Typical Input: 0 – 5mA AC, 0-10mA AC, 0-20mA AC, 0-10Vac or 0-20Vac.

Output

Any standard process current or voltage in the range of;
 Current source up to 22mA max, with drive voltage 24Vdc
 (Current Sink option available, 30Vdc max external drive)
 Voltage source up to 20V max output
 Typical Output: 4-20mA (max load 1200Ω) or 0-10Vdc (min load 500Ω)

Performance

Accuracy/Linearity: <±0.1% Span
 Response Time: typically <200mS
 Supply consumption: <3VA

Protection

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

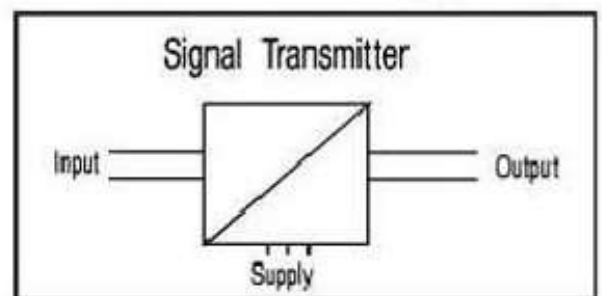
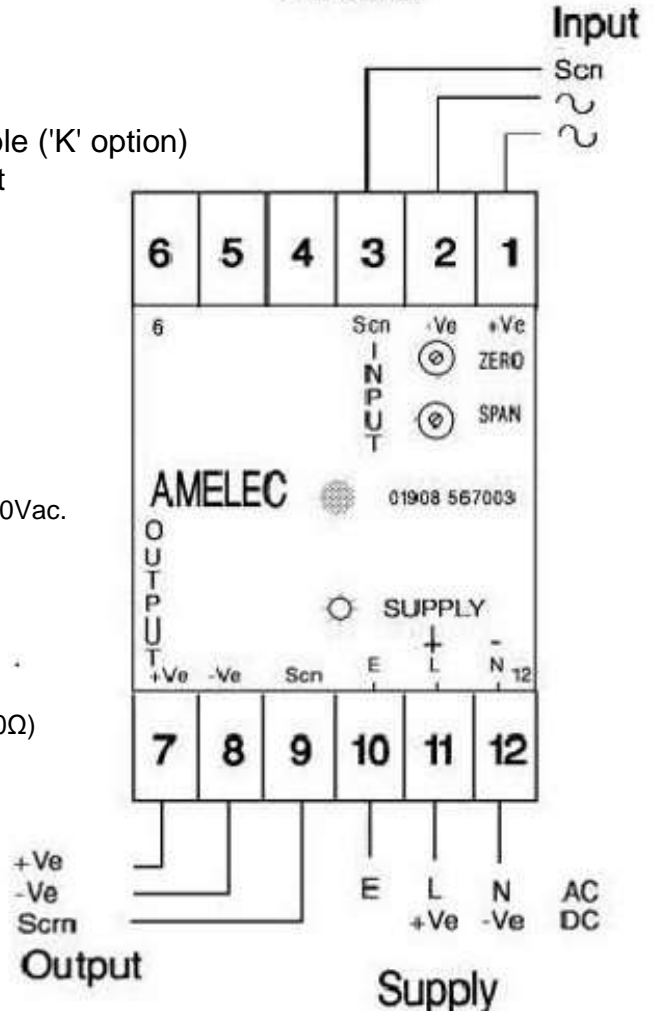
Environmental Conditions

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)

Options

DI = A 3½ digit Display of the input or output in units to suit
K = RF Immunity: 20MHz-3GHz/5.25GHz ≤10V/m,
 80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m
X = Input Open Circuit response Upscale drive
RMS = True RMS input measurement

WIRING



Mounting: Either Din Rail (TS35) **or** Surface by corner fixing holes as standard

Dimensions: 50w x 75h x 110d mm)

(DI option=145d mm, K option= 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