

ADM213DI(K) mV Signal Transmitter with Digital Display

- Suitable for SIL 1 & SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltages: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010 available ('K' option)
- Digital Display 'DI': 3.5 digit Liquid Crystal Display as std showing the input (or output) in units to suit the application (up to 4.5 digit Red LED display options also available)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any mV input signal range, up to 400mV
Minimum span 4mV.

Output

Any standard process current or voltage signal
Current source up to 20mA. Drive voltage 24Vdc
Voltage source up to 10V. Max current 20mA

Typical Output

Current 4-20mA, max load 1200 Ω
Voltage 0-10Vdc, min load 500 Ω

Isolation

1000V RMS* Input/Output/Supply/Earth
*(500Vdc when 'K' option is specified)

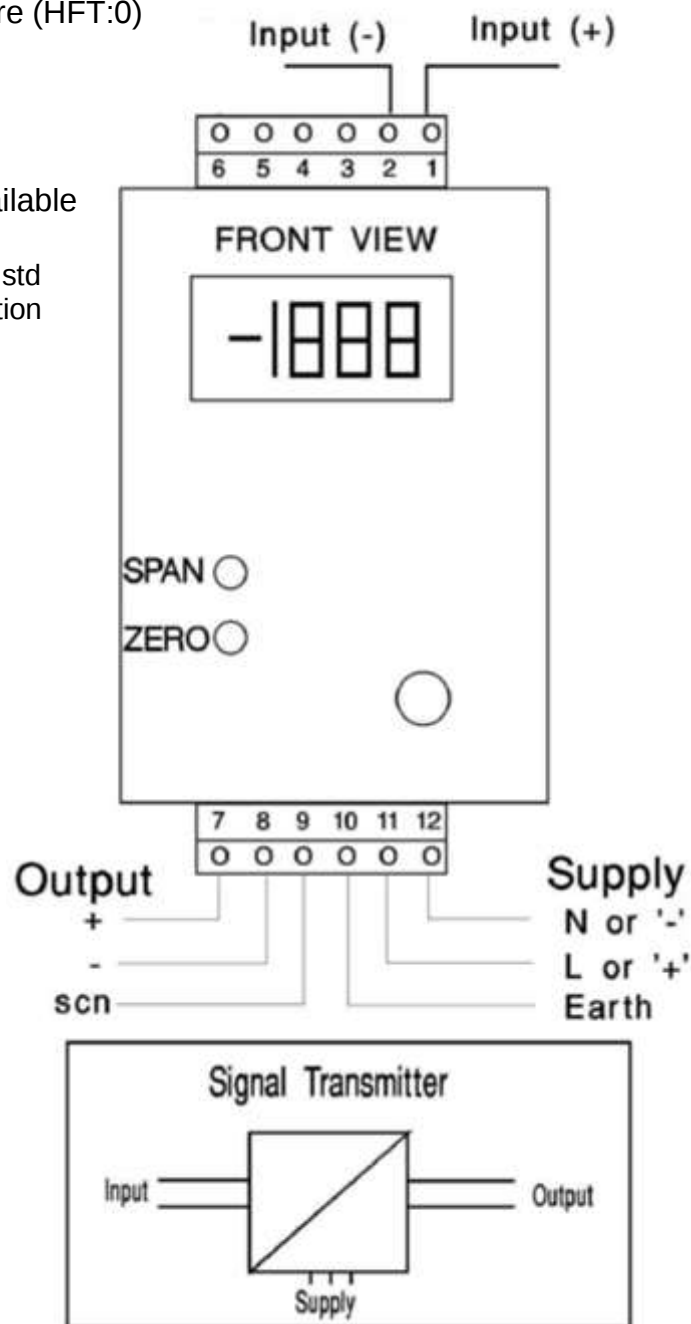
Performance

Linearity: $< \pm 0.1\%$ span
Response time: Typically $< 200\text{ms}$
Accuracy: $< \pm 0.1\%$ span
Supply consumption: $< 2\text{VA}$
Input over range: typically 300%
'K' option RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz-1.75GHz $\leq 40\text{V/m}$)

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)
(‘K’ option: to the highest Generic Industrial levels)

WIRING



Dimensions/ Mounting:

50w x 75h x 145d mm – DI only
50w x 75h x 182d mm – when K option specified
Din Rail mounting (TS35) as standard.
Surface by seismic Keyhole Plate (50w x 130h mm)
or Front of Panel mounting (P) options available
(Bezel Dims: 57w x 96h, Cut out Dims: 51w x 76h 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