

ADM213K mV input Signal Transmitter / Converter / Isolator

- Suitable for SIL1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non Smart / Non-uProcessor, Type A instrument
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
110Vdc $\pm 10\%$
- RFI protection to EN 61000-4-3:2006/A2:2010
20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$, 80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$
(889MHz/1.75GHz $\leq 40\text{V/m}$)
- Amelec standard 10 year Warranty

TECHNICAL SPECIFICATION

INPUT

Any mV range up to 400mV may be specified, with a minimum 3mV span. Typical Input ranges: 0-5mV, 0-10mV, 0-20mV, 0-30mV, 0-50mV, 0-100mV or 0-200mV dc (impedance $\geq 250\text{K}\Omega$)

OUTPUT

DC current or voltage may be specified in the range of:
Current up to 22mA max, Source configuration (Internally powered)
Voltage up to 20Vdc max
Typical output range: 4 - 20mA (Source port, max load 1200 Ω)
Current up to 100mA max in Sink configuration (externally powered)

CONTROLS

15 turn potentiometers
Zero $\pm 25\%$
Span $\pm 50\%$

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: $< \pm 0.1\%$ span
Response time: Typically $< 200\text{ms}$
Accuracy: $< \pm 0.1\%$ span
Supply regulation: AC supply $\pm 20\%$, DC supply $\pm 10\%$
Supply consumption: $< 3\text{VA}$

PROTECTION

Isolation: 500V DC Input/Output/Supply/Earth
Internal Fuse.
Input over range: typically 300%.
Input open circuit response: Upscale drive as standard
(Input O/C Downscale drive may be specified if preferred)

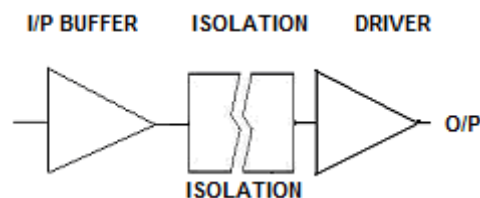
TERMINATION

Input +	1
Input -	2
Scn	3
	4
	5
	6
OUTPUT +	7
OUTPUT -	8
Scn	9
Earth	10
Live / +	11
Neutral / -	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITIONS

Storage temperature: -40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 182d mm
Mounting: Heavy duty DIN Rail (TS35) as standard,
Seismic / Surface keyhole plate & Front of Panel mount options
also available (seismic mounting plate Dims: 50w x 130h mm)
Weight $< 500\text{g}$

ADD ON / OPTIONS

P: Test point (input &/or Output monitoring)
HS: High speed response $< 20\text{ms}$ for 100% span step change
DI: 3.5 digit LCD or 4.5 digit Red LED front fascia Digital Display