

ADM230K Voltage Transmitter

- Suitable for Any Resistance / Potentiometer
- Supply voltage: 48Vdc (Other ranges available)
- RFI protection to IEC61000-4-3
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

- Any application where voltage signal requires to be converted and transmitted.

TECHNICAL SPECIFICATION

INPUT

DC current / voltage can be specified in the range of:

Current up to 100mA max (Passive)

Voltage 0.4 to 500V max

Typical input: 4 - 20mA (Passive)

OUTPUT

DC current or voltage specified in the range of:

Current up to 100mA max in Sink configuration

(externally powered)

Current up 22mA max Source configuration (Internally powered)

Voltage any from 0.4 to 20V max @ up to 5mA per output.

Typical output range: 4 - 20mA (Source)

CONTROLS

15 turn potentiometer.

Zero $\pm 25\%$

Span $\pm 50\%$

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: $< \pm 0.1\%$

Response time: Typically $< 400\text{ms}$

Accuracy: $< \pm 0.1\%$

Supply regulation: $\pm 20\%$

Supply consumption: $< 2\text{VA}$

PROTECTION

Isolation 500V DC: IP/OP/Supply/Earth

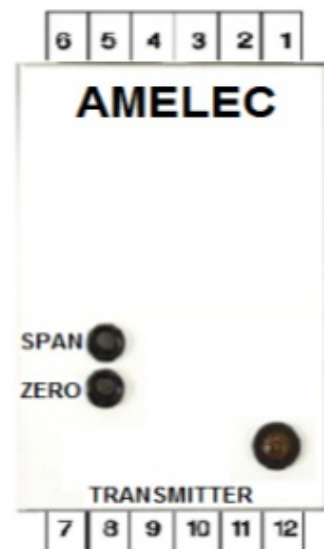
Internal Fuse.

Input over range up to typically 300%.

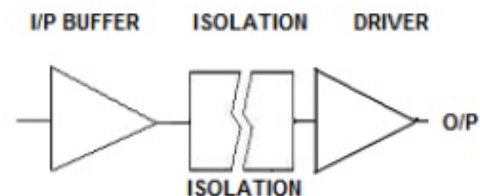
TERMINATION

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

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

Storage temperature: -40 to $+70^\circ\text{C}$

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

Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50 (W) x 75 (H) x 182 (D) – (mm)

Mounting: Surface Keyhole (optional Din /Panel Mount)

Weight $< 500\text{g}$

RFI Protection

Maximum 1% error when subject to 10V/m RF field in the frequency range from 20MHz to 1GHz