

ADM230-HA High Accuracy Signal Converter / Isolator

- Suitable for most Process Signals
- Supply voltage: 24Vdc (Other DC ranges available)
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

- Signal converter, Isolator and Booster, where high accuracy, Linearity and stability is required.

TECHNICAL SPECIFICATION

INPUT

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

Current up to 100mA max (Passive)

Voltage 10 to 100V 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 1 to 10Vdc max @ up to 5mA per output.

Typical output range: 0 – 10Vdc (Source)

CONTROLS

15 turn potentiometer.

Zero $\pm 5\%$

Span $\pm 5\%$

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: $< \pm 0.02\%$

Response time: Typically $< 200\text{ms}$

Accuracy: $< \pm 0.03\%$

Supply regulation: $\pm 10\%$

Supply consumption: $< 1.5\text{VA}$

Temp Coefficient: $0.005\% / \text{Deg C}$

PROTECTION

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

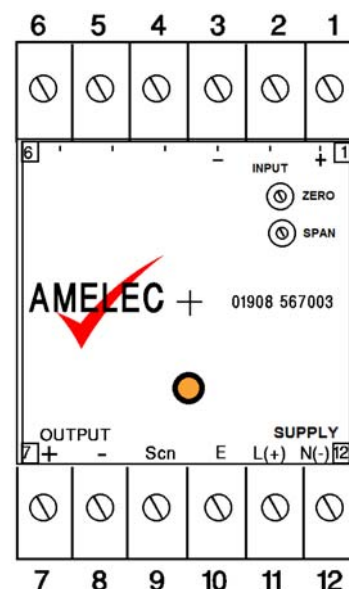
Internal Fuse.

Input over range up to typically 200%.

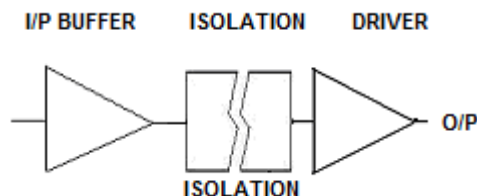
TERMINATION

Input +	1
Input -	2
	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: $50\text{w} \times 75\text{h} \times 182\text{d}$

Mounting: Surface Keyhole (optional Din /Panel Mount)

Weight $< 300\text{g}$

ADD ON / OPTIONS

J : Input injection jack socket

P: Test point (Trip set point monitoring)

Non standard Power supply ranges available