

ADM250X Signal Converter

- Suitable for most Process & unusual Signals
- Supply voltage: 24Vdc / 115Vac / 230Vac
- RFI protection to IEC61000-4-3 available
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

- Booster/converter for unusual Process signals.

TECHNICAL SPECIFICATION

FUNCTION

Converts AC or DC current or voltage signal to standard process DC current or Voltage signals.

INPUT

Voltage AC or DC Selected by Terminals
TB1 (AC)/3, AC Input, up to 300V can be specified.
TB2 (+)/3, DC Input, up to 300V can be specified.

Current AC or DC Selected by Terminals
TB1 (AC)/3, AC Input, up to 5A can be specified.
TB2 (+)/3, DC Input, up to 5A can be specified.

AC signal sinusoidal 50Hz nominal, others may be specified.

OUTPUT

DC current or voltage specified in the range of:
Current up to 400mA max in Sink configuration (externally powered)
Current up to 400mA max Source configuration (Internally powered)
Voltage any from 0.4 to 20V max @ up to 400mA.
Typical output range: 0 - 100mA (Source)

CONTROLS

Zero / Span: 15 turn potentiometer.

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: < $\pm 0.1\%$
Response time: Typically < 400mS
Accuracy: < $\pm 0.1\%$

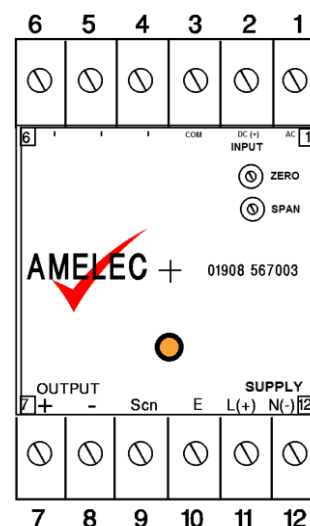
PROTECTION

Input O/C drive Downscale.
Isolation 1000V RMS. Input / Output / Supply / Earth
Internal Fuse.
Input over range up to typically 200%.

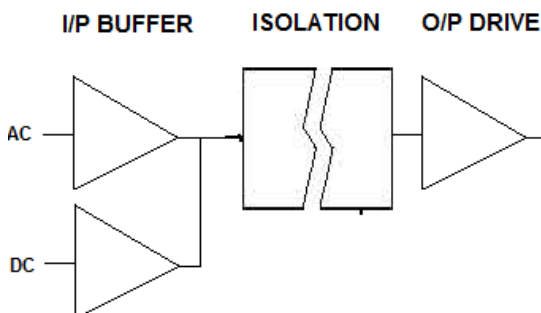
TERMINATION

AC	1
DC (+)	2
com	3
	4
	5
	6
OUTPUT +	7
OUTPUT -	8
Scn	9
Earth	10
Live / +	11
Neutral / -	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d
Mounting: Din rail / (optional Surface/ Panel Mount)
Weight < 300g

ADD ON / OPTIONS

DI: LCD display for local monitoring
J : Input injection jack socket
P: Test point (Trip set point monitoring)
Non standard Power supply ranges available