

ADC311X-4 Scale & Bias with 4 way Signal splitter

- Supply voltage: 12Vdc / 24Vdc / 48Vdc
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

- Signal Isolator / Splitter
- Signal Isolator / Booster
- Signal converter to resolve incompatibility.

TECHNICAL SPECIFICATION

INPUT

Any DC current / voltage can be specified in the range of:
Current: up to 100mA max (Passive)
Voltage -10 to +100V max
Typical input: 8-16mA , 20-4mA (Passive) or
-10V to +10Vdc

OUTPUTS

Any standard process current or voltage in the range of:
Current: up 22mA max Source configuration (Internally powered)
Current up to 100mA max in Sink configuration (externally powered)
Voltage: any from 0.4V up to 20V max span.
Typical output: 4 - 8mA, 20-4mA (Source) or
-10V to +10Vdc

CONTROLS

Zero / Span (+/- 20%): 15 turn potentiometers for output calibration.

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

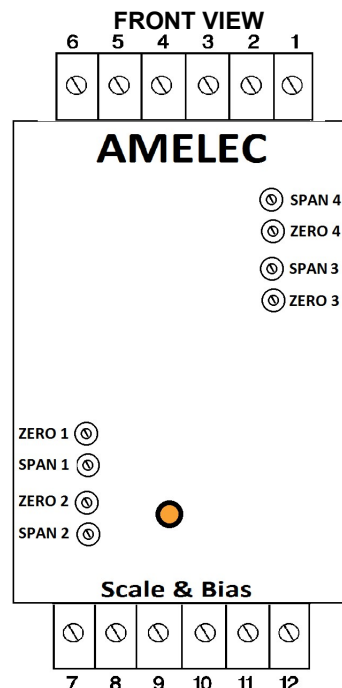
Linearity: < $\pm 0.1\%$
Response time: Typically < 400mS
Accuracy: < $\pm 0.1\%$
Supply regulation: $\pm 20\%$
Supply consumption: < 3VA

PROTECTION

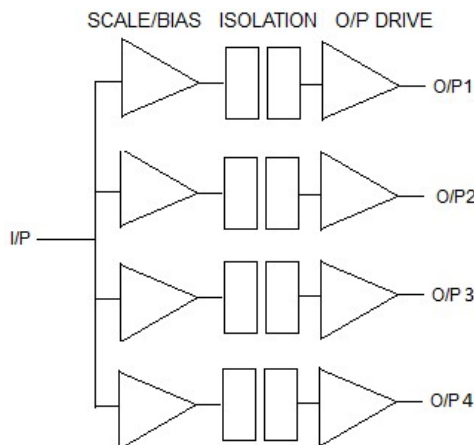
Isolation 1000V RMS.
Input /Output1/Output 2/Output3/OUTPUT4/Supply/Earth
Internal Fuse.
Input over range up to typically 500%.
Output limited at 120%

TERMINATION

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



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 145d
Mounting: Din rail / (optional Surface / Panel Mount)
Weight < 200g