

## ADC311X-4-HL 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 to 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

#### HIGH LIMIT (HL)

Output fitted with limiter to clamp output from following the input higher. Typically factory set at 105% but can be specified in the range of 101 to 110% of the span.

#### CONTROLS

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

#### INDICATOR

Power ON: LED, Amber.

#### PERFORMANCE

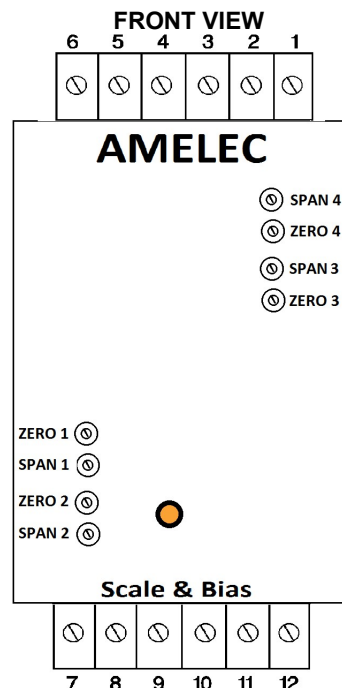
Linearity: <  $\pm 0.1\%$   
Response time: Typically < 400mS  
Accuracy: <  $\pm 0.1\%$   
Supply regulation:  $\pm 20\%$   
Supply consumption: < 3VA

#### PROTECTION

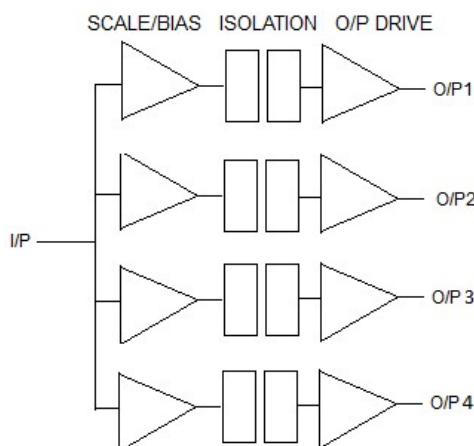
Isolation 1000V RMS.  
Input / Output1/Output 2/Output3/OUTPUT4/Supply/Earth Internal Fuse.  
Input over range up to typically 500%.  
Output limited at 120%

### 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



### ENVIRONMENTAL 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