ADM239X Deviation Control

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

APPLICATION
- Adjustable Speed regulator / controller

TECHNICAL SPECIFICATION

INPUT 1
Set by 15 turn blindest potentiometer in the range of 60 to 90% of input 2 span, potentiometer located on the Front facia of the unit.

INPUT 2
DC current / voltage can be specified in the range of:
Current up to 100mA max (Passive)
Voltage 0.4 to 100V max
Typical input: 4 - 20mA (Passive)

FUNCTION
Subtraction: Input 1- Input 2
Combination of above & other specials arithmetic function available on request.

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 ± 25%
Span ± 25%

INDICATOR
Power ON: LED, Amber.

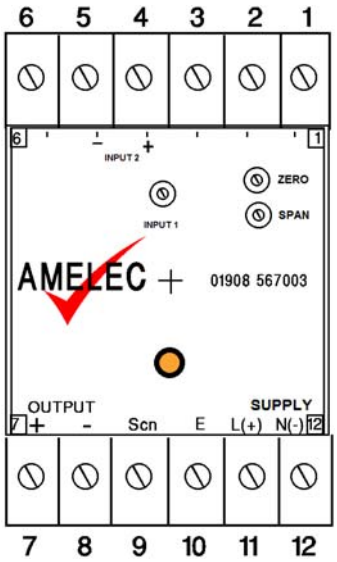
PERFORMANCE
Linearity: < ±0.1%
Response time: Typically < 400mS
Accuracy: < ±0.1%
Supply regulation: ± 20%
Supply consumption: <2VA

PROTECTION
Isolation 1000V RMS: IP/OP/Supply/Earth
Internal Fuse.
Input over range up to typically 300%.

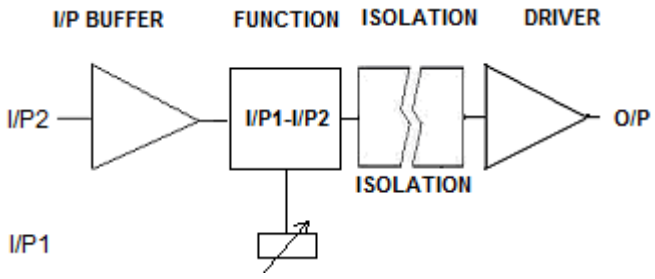
TERMINATION

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

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIROMENTAL CONDITION

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

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d
Mounting: Din / Surface
Weight < 300g

CALIBRATION CHECK
1. Set input 2 to 75% and adjust Input1 potentiometer until output reads 75%.

2. Increase input 2 in steps of 1mA and check output reduces in steps of 1mA.

3. Decrease input 2 in steps of 1mA and check output increases in steps of 1mA.