

ADM239X-AAV Auto Averager

- Suitable for any process input
- Supply voltage: 24Vdc / 115Vac / 230Vac
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

Any application where average of up to two input(s) is required to be transmitted.

TECHNICAL SPECIFICATION

INPUT

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)
Note: Inputs will have Common 0V.

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 20mA.
Typical output range: 4 - 20mA (Source)
2x SPCO relay rated at 250VAC, 2A, 100VA resistive

CONTROLS

Zero / Span: 15 turn potentiometer to set internal input reference.
Trip 1 & 2: 15 turn potentiometer to set trip point in the range of 0 to 110%.

INDICATOR

Power ON: LED, Amber.
Relay status: LED, Red.

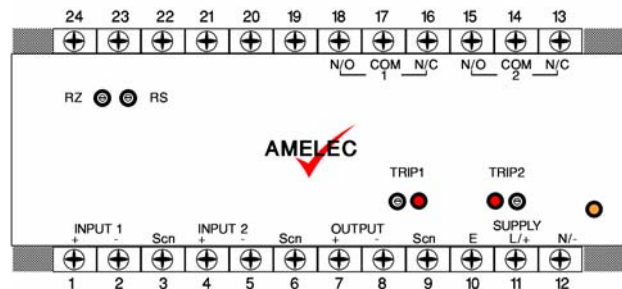
PERFORMANCE

Trip settability: better than $\pm 1\%$
Trip repeatability: better than $\pm 0.1\%$
Dead band: Typically $< 1\%$
Linearity: $< \pm 0.1\%$
Response time: Typically $< 400\text{ms}$
Accuracy: $< \pm 0.1\%$

PROTECTION

Isolation 1000V RMS.
Inputs/Contacts/Output/Supply/Earth
Internal Fuse.
Failsafe Relay loss of power
Input over range up to typically 300%.

FRONT VIEW



TERMINATION

| | | | |
|---------|------------|-------------|--------------|
| Input 1 | TB1 + | TB2 - | |
| Scn | TB3 | | |
| Input 2 | TB4 + | TB5 - | |
| Scn | TB6 | | |
| Output | TB7 + | | |
| Scn | TB9 | | |
| Trip 1 | TB18 N/O | TB17 Com | TB16 N/C |
| Trip 2 | TB15 N/O | TB14 Com | TB13 N/O |
| Supply | TB10 Earth | TB11 Live/+ | TB12 Neutral |

FUNCTION

Output = Sum of Input(s) / No of Inputs.
Input failure detected and failed input removed from the equation.

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ENVIRONMENTAL CONDITION

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

MOUNTING / DIMENSION

Enclosure: 152w x 81h x 137d
Mounting: Din rail / Surface
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