

ADC319-239X Arithmetic unit

- Suitable for any process input
- Supply voltage: 24Vdc / 115Vac / 230Vac
- Amelec standard 2 years guarantee

TECHNICAL SPECIFICATION

INPUT1

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.

INPUT2

Volt free contacts: Normally contact closed. Contact opened for at least 1 second to reset the tare value.

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)

CONTROLS

Zero / Span: 15 turn potentiometer to set internal input reference. +/- 20%

INDICATOR

Power ON: LED, Amber.
 Digital indicator: 4.5 digit LED, Red.

PERFORMANCE

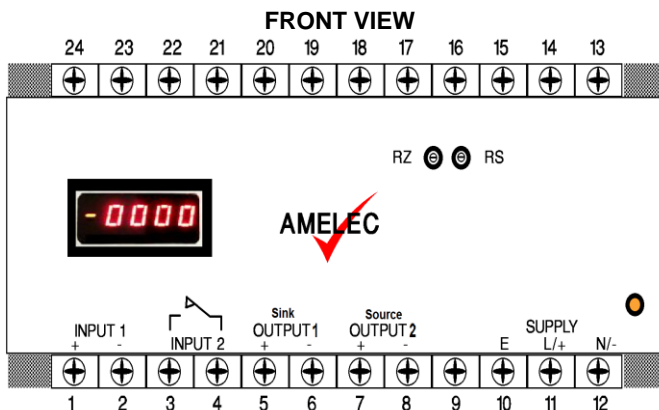
Linearity: < $\pm 0.2\%$
 Response time: Typically < 400ms
 Accuracy: < $\pm 0.2\%$

PROTECTION

Isolation 1000V RMS.
 Inputs/Output1/Output2/Supply/Earth
 Internal Fuse.
 Input over range up to typically 200%.

ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C
 Operating Ambient: -0 to +55 °C
 Relative Humidity: 5 to 95% RH



TERMINATION

Input 1	TB1 +	TB2 -
Input 2	TB3 (N/C)	TB4 (Com)
Output1(Sink)	TB5 +	TB6-
Output1(Source)	TB7 +	TB8-
Supply	TB10 Earth	TB11 Live/+ TB12 I

FUNCTION

On pressing & holding the external 'tare' button for 1 second the incoming signal will be subtracted from the output. For example if the incoming signal is 6.8mA then when input 2 contact is opened for 1 second via the field mounted pushbutton the unit will subtract 2.8mA (6.8mA – 4mA live zero offset) from the output and give out 4mA on both outputs. As the incoming signal is increased 2.8mA is subtracted from the output throughout its range so for example when the input is 9mA the output will be 6.2mA etc.

When a new bin is placed on the weigh scale which has a different weight than the original one the 'tare' button is pressed once again and the new mA which corresponds to the weight of the bin will be deducted from the output throughout the measuring range.

MOUNTING / DIMENSION

Enclosure: 152w x 81h x 137d
 Mounting: Din rail / Surface
 Weight < 300g

ADD ON / OPTIONS

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