

Simple Screw Terminal Connections



160

Top right hand corner of the pcb.

Specification	Min.	Typ.	Max.	Unit
Accuracy (overall error) *	0.05		0.1	%(±1 count)
Linearity			±1	count
Sample rate		3		samples/sec
Operating temperature range	0		50	°C
Temperature stability		100		ppm/°C
Loop Volt Drop	3.9	4.3	4.8	V

CONNECTOR SOURCING GUIDE

METHOD Screw Terminals - No Connector Required

Technical drawing showing the front and top views of a rectangular plate with dimensions in mm and inches.

Front View (Top):

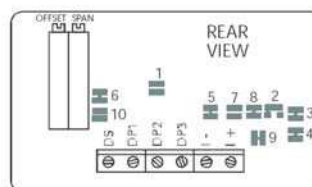
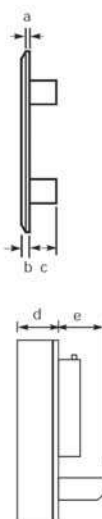
- Overall width: 76.0 (2.99)
- Inner width: 72.5 (2.85)
- Overall height: 44.0 (1.73)
- Inner height: 40.5 (1.59)
- Bottom width: 51.0 (2.01)
- Right height: 24.0 (0.94)

Top View (Bottom):

- Overall width: 61.5 (2.42)
- Inner width: 51.0 (2.01)
- Overall height: 39.0 (1.54)
- Inner height: 24.0 (0.94)
- Bottom width: 71.5 (2.81)
- Right height: 24.5 (0.96)
- Top right corner hole: $\varnothing 5.7$ (0.22)
- Bottom right corner hole: $\varnothing 3.0$ (0.12)

- 1.0 (0.04)
- 2.0 (0.08)
- 6.5 (0.26)
- 11.5 (0.45)
- 11.0 (0.43)*

*typical depth of tallest component behind PCB, this dimension is for guidance only.

ON BOARD
SOLDER LINKS

ELECTRONIC ASSEMBLY

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TERMINAL FUNCTIONS

- | | |
|--------|--|
| 1. I+ | Positive current input. |
| 2. I- | Negative current input. |
| 3. DP3 | 1.000 |
| 4. DP2 | 10.00 |
| 5. DP1 | 100.0 |
| 6. DS | Decimal Point select. Connect to required DP input to display decimal point. |

CALIBRATION

The meter is supplied calibrated to read 000 for 4mA loop current and 1000 for 20mA.

To re-calibrate:

1. Apply 4mA to I+ / I- and adjust 'OFFSET' to read 000.
2. Apply 20mA and adjust 'SPAN' to read 1000.
3. Repeat steps 1 and 2 until there is no more adjustment of 'SPAN' and 'OFFSET' required to give desired readings.

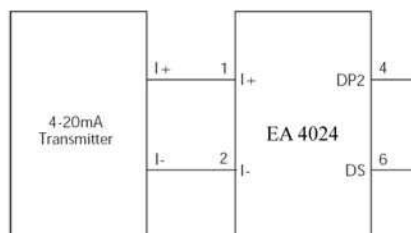
SAFETY

To comply with the Low Voltage Directive (LVD 93/68/EEC), input voltages to the module's pins must not exceed 60Vdc. If voltages to the measuring inputs do exceed 60Vdc, then fit scaling resistors externally to the module. The user must ensure that the incorporation of the DPM into the user's equipment conforms to the relevant sections of BSEN 61010 (Safety Requirements for Electrical Equipment for Measuring, Control and Laboratory Use).

VARIOUS OPERATING MODES

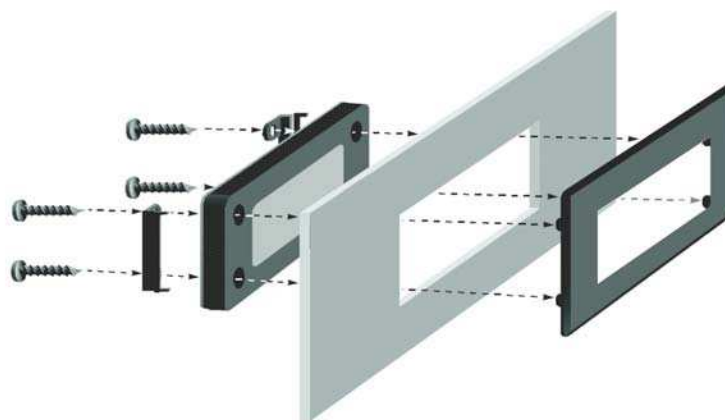
ON-BOARD LINKS: In order to quickly and easily change operating modes for different applications, the meter has several "on-board links". They are designed to be easily opened (cut) or shorted (soldered).

The EA 4024 is powered from the 4-20mA signal loop and needs no other power supply. Ensure correct polarity when connecting.



DP2 selected in this example.

PANEL FITTING



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