

Instructions, Model M-35 Miniature Process Meter



Overview

Model M35 is a compact 3-1/2 digit panel meter with four jumper-selectable process signal ranges: 4-20 mA, 10-50 mA, 0-10 Vdc, and 0-200 Vdc. It is powered by 10-30 Vdc. Signal and power are mutually isolated to 750 Vac. Zero and span are easily set by screwdriver adjustment at the back of the meter.

How to Set Ranges

Remove the electronics by carefully removing the delicate bezel and removing the rear connector. The electronics will then slide out in front. Set jumpers as follows:

4-20 mA	1 & 2
10-50 mA	1 & 3
0-10V	1
0-200V	none

How to Wire Your Meter

Apply power to the two terminals marked PWR. Apply signal to the two terminals marked I/P. Apply high polarity to the terminal marked +.

How to Calibrate Zero & Span

Apply signals corresponding to the desired minimum and maximum readings, such as 4 mA and 20 mA. Set the display in counts (ignoring the decimal point) for these two signals by adjusting the ZERO and SPAN potentiometers at the back of the meter.

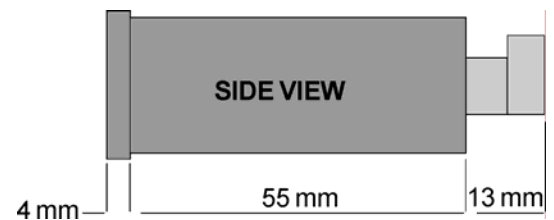
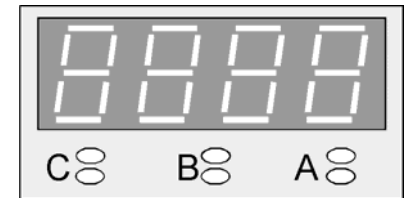
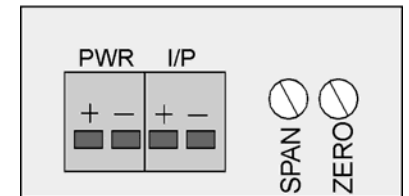
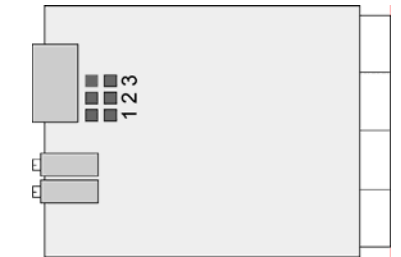
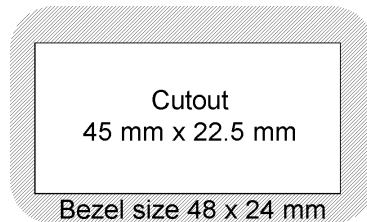
How to Set the Decimal Point

Use a fine tipped soldering iron to build a bridge as follows:

1888	No jumpers
1.888	Bridge C
18.88	Bridge B
188.8	Bridge A

How to Install Your Meter

Simply push in meter into a 45 x 22.5 mm panel cutout. The depth required behind the panel is 68 mm. External bezel dimensions are 48 x 24 mm.



Specifications

Display 3-1/2 digits, red LED, 10 mm high
 Decimal points Solder switch selectable
 Input ranges 4-20 mA, 10-50 mA, 0-10 Vdc, 0-200 Vdc
 Impedance 182Ω for 4-20 mA, 68 Ω for 10-50 mA,
 0-10V, 207 kΩ for 0-200 Vdc
 Scaling Zero & span potentiometers
 Zero adjust ± 1000 counts
 Span adjust ± 2000 counts
 Converter Dual slope integration

Accuracy ± 0.2% of range, 50ppm tempco
 Operating temperature -20 to +60°C
 Storage temperature -40 to +80°C
 Power requirement 10-30 Vdc, 0.6 Watt
 Signal isolation 750 Vac
 Panel cutout 45 x 22.5 mm
 External dimensions 48 x 24 x 70 mm
 Weight 60 g (2.1 oz)
 Connectors Detachable screw clamp