

# Instructions, Model M-35 Miniature Process Meter



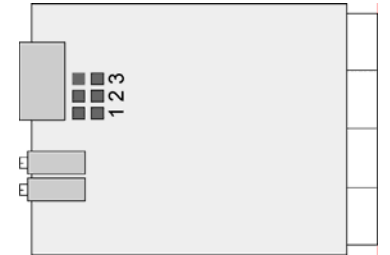
## Overview

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

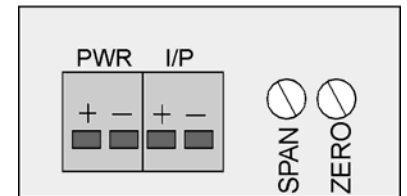
Remove the electronics by carefully removing the delicate bezel and removing the rear connector. The electronics will then slide out in front. Set jumpers as follows:

- 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 +.



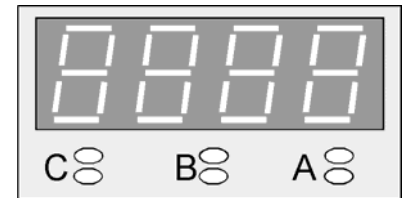
## How to Calibrate Zero & Span

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

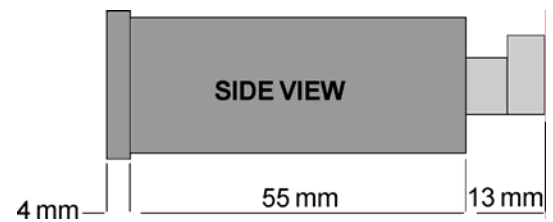
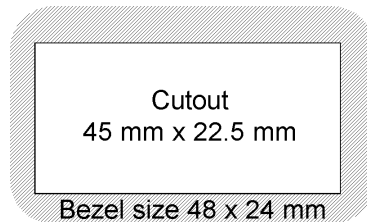
Use a fine tipped soldering iron to build a bridge as follows:

- 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