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Connections



These instruments are designed for maximum safety to the operator when mounted in a panel according to instructions. They are not to be used unmounted or for exploratory measurements in unknown circuits.



A reversed polarity power supply will permanently damage this instrument.



IN HIGH and IN LOW must remain within the limits of the power supply.

A **positive reading** will be displayed when IN Hi is more positive than IN Low.

Internal Reference: REFOUT must always be connected to REFIN unless an external reference is being used.

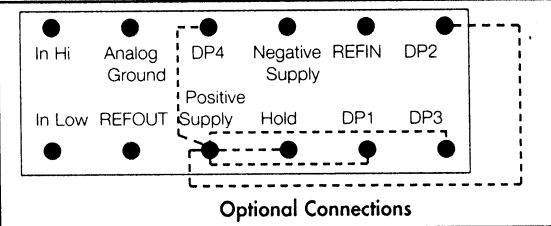
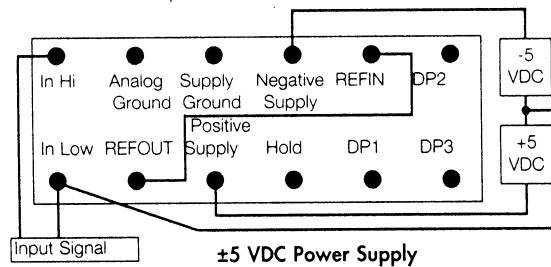
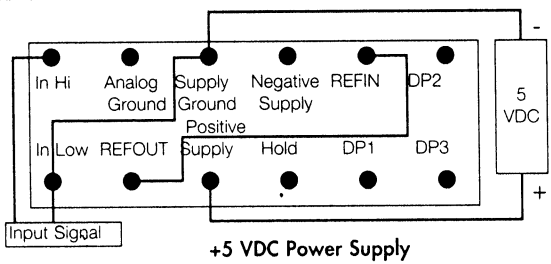
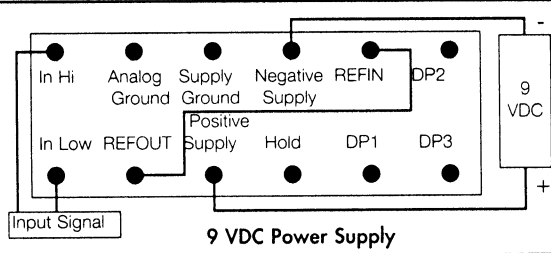
External Reference: Connect between REFIN and ANALOG GROUND; REFOUT should then be unconnected (open). For best results, external reference voltage should be in the range of 50mV to 150mV. System stability is then only as good as the external reference.

Calibration

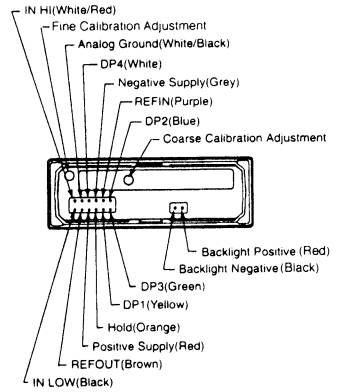
Model M145 has two internal adjustments on the rear panel, one that is covered by a label, and one that is always exposed. The exposed adjustment is a "fine" calibration point, and the covered adjustment is for "coarse" calibration. Apply an appropriate current input for a near full scale reading, typically 19000 counts on the display. For these adjustments to function, REFOUT must be connected to REFIN. Once a unit has been calibrated with the "coarse" adjustment, future calibrations should be performed with the "fine" adjustment only.

Backlight Power Supply

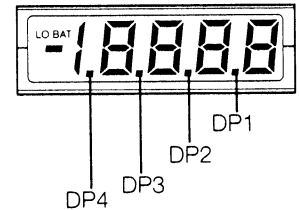
A 2-pin connector is included with the unit if backlighting is specified. The right pin is the Positive, and the left pin is for the Negative power supply. See the **Rear Connections** diagram for location.



Mini M145
Rear Connections



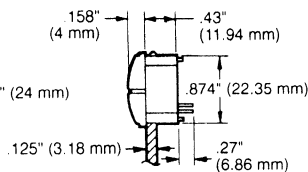
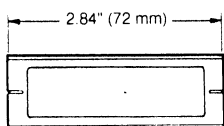
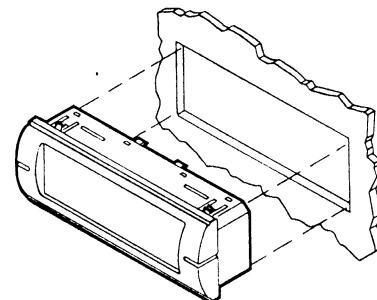
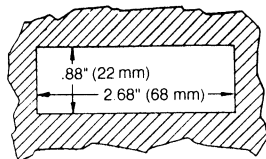
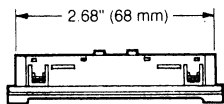
Decimal Point



Decimal Point: DP 1 is the first decimal point to the left of the least significant digit. Connect DP# to Positive Supply to activate. Unneeded features should remain unconnected.

Display Hold: The display can be held indefinitely by connecting Hold to Positive Supply. The display will function normally when this connection is removed.

Installation and Panel Cutout



No mounting hardware required, snaps right into panel!

Mounting Requirements

The Mini indicators require a panel cutout of 2.68" (68mm) wide by 0.88" (22mm) high, and a panel area of 0.945" (24mm) high by 2.84" (72mm) wide. The depth behind the panel, including terminals, is 0.7" (17.8mm). The front bezel protrudes 0.158" (4mm) from the front of the mounting surface. The unit will snap-mount into panels from 0.050" to 0.125" thick. A 12-pin connector with 6" wire leads is included with each unit for quick installation.