Mini M135 & M145 Digital Panel Meters







- 3/64 DIN Indicator
- Minimum depth requires less than 0.7" (17mm) behind the panel
- Snaps right into panel no mounting hardware required

Mounting Requirements

The Mini indicators require a panel cutout of 2.71" (68.8mm) wide by 0.89" (22.6mm) high, and a panel area of 0.94" (24mm) high by 2.83" (72mm) wide. The depth behind the panel, including terminals, is 0.7" (17.8mm). The front bezel protrudes 0.16" (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. more >>

Specifications

DISPLAY 7-segment LCD Type 0.5" (12.7mm) Height

3 or 4 position user-programmable **Decimal point** Most significant = "1" other digits blank Overrange indication Optional negative image, red backlighting at **Backlighting**

5, 10, 12, 24 or 48 DCV

Auto with "-" indication, "+" indication implied **Polarity**

POWER REQUIREMENTS

DC Power

±5V, +5V and +9V Low Power Indication included with 9V units

Power supply current **Backlight supply current**

50mA typical. For 24 and 48DCV, 10mA typical

3 1/2 digit: ±(0.1% of reading + 1 count) **ACCURACY @ 25°C** 4 1/2 digit: ±(0.04% of reading + 1 count)

ENVIRONMENTAL Operating Temperature 0 to 55°C

Storage Temperature -10 to 60°C **Relative Humidity** 0 to 85% non-condensing @ 40°C

Warmup time Less than 20 minutes

Temperature Coefficient (All inputs)

± (0.02% of input ± 0.2 digit)/°C

NOISE REJECTION

NMRR 60dB, 50/60Hz

CMRR (with 1K Ω unbalanced @ 60 Hz) 90dB min

A TO D CONVERSION

Technique Integrating

Rate 3 samples/second-typical

MECHANICAL

0.94" x 2.83" Bezel 0.43" Depth

Panel cutout 0.89" x 2.71" (22.6mm x 68.8mm)

Weight 1.0oz (28.3g)

Case Material 94-VO, UL-rated ABS

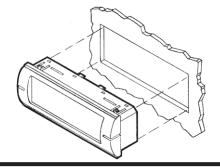
Input Specifications

DC Voltage

Resolution	Input	Max Input
	Impedance	(Unfused
100µV	>100mΩ	50V
1mV	10m Ω	250V
10mV	10m Ω	250V
100mV	10m Ω	250V
	100µV 1mV 10mV	$\begin{array}{c c} & Impedance \\ \hline 100 \mu V & > 100 m \Omega \\ \hline 1mV & 10 m \Omega \\ \hline 10mV & 10 m \Omega \\ \end{array}$

DC Current

Range	Resolution	Voltage	Max Input
		Drop	(Unfused)
200μΑ	100µA	200mV	10mA
2mA	1µA	200mV	40mA
20mA	10μA	200mV	100mA
200mA	100μΑ	200mV	400mA

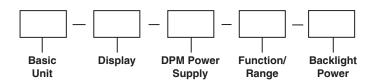




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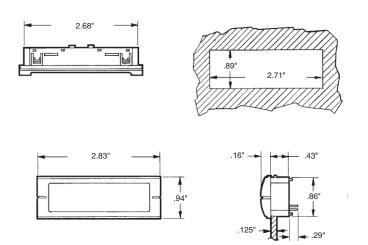
Ordering Information

Mini Indicators can be configured by making an entry in each section. Example: M135-0-2-11-0



Selection	Description	Selection	Description
M135 M145	Basic Unit 3-1/2 Digit LCD 4-1/2 Digit LCD	11 12 13	Function/Range 200 DCmV 2 DCV 20 DCV
0 1	Display Non Backlit Negative Red Backlight	21 22 23 24	200 DCμA 2 DCmA 20 DCmA 200 DCmA
0 1 2	DPM Power Supply + 5 DCV ± 5 DCV + 9 DCV	0 1 2 3 4 5	None 5 DCV 10 DCV 12 DCV 24 DCV 48 DCV

Installation and Panel Cutout



For more information, visit www.simpsonelectric.com