

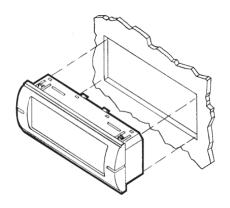
Mini M135 & M145 Digital Panel Meters



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

Input Specifications			
DC Voltage			
· · · · · · · · · · · · · · · · · · ·			Max Input (Unfused)
200mV	100μV	>100MΩ	50V
2V	1mV	10ΜΩ	250V
20V	10mV	10ΜΩ	250V
200V	100mV	10ΜΩ	250V

DC Current			
Range	M135 ange Resolution		Max Input (Unfused)
200μΑ	100nA	200mV	10mA
2mA	1μΑ	200mV	40mA
20mA	10μΑ	200mV	100mA
200mA	100μΑ	200mV	400mA



Specifications			
DISPLAY			
Туре	7- segment LCD		
Height	0.5" (12.7mm)		
Decimal Point Position	User-Selectable		
Overrange Indication	Most significant = "1" other digits blank		
Backlighting	Optional negative image, red backlighting at 5, 10. 12, 24 or 48 DCV		
Polarity	Auto with "-" indication, "+" indication implied		
РО	WER REQUIREMENTS		
DC Power	±5V, +5V and +9V Low Power Indication included with 9V units		
Power supply current	2mA max		
Backlight supply current	50mA typical For 24 and 48 DCV, 10mA typical		
400UD40V @ 0500	0.4/0.4/0.4/0.40/.ef.vee.4/o.e./.		
ACCURACY @ 25°C	3 1/2 digit: ± (0.1% of reading + 1 count)		
	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 DE LECTION		
NOISE REJECTION			
NMRR	60dB, 50/60 Hz		
CMRR	(with 1KΩ unbalanced @ 60Hz) 90dB min		
A TO D CONVERSION			
Technique Integrating			
Rate	3 samples/second-typical		
	MECHANICAL		
Bezel	0.94" x 2.83"		
Depth	0.43"		
Panel cutout	0.89" x 2.71" (22.6 mm x 68.8 mm)		
Weight	1.0 oz. (28.3 g)		
Case Material	94-VO, UL-rated ABS		

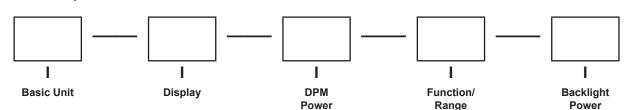
Rev. 05-19



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Ordering Information -

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



Supply

Select From Each One Below		
Basic Unit		
M135	3 1/2 Digit LCD	
M145	4 1/2 Digit LCD	

Display		
	0	Non Backlit
	1	Negative Red Backlight

DPM Power Supply		
	0	+ 5 DCV
	1	± 5 DCV
	2	+ 9 DCV

Select From Ea			
Function / Range			
11	200 DCmV		
12	2 DCV		
13	20 DCV		
14	200 DCV		
21	200 DC μ A		
22	2 DCmA		
23	20 DCmA		
24	200 DCmA		

One Below		
Backlight Power		
0 None		
	1	5 DCV
	2	10 DCV
	3	12 DCV
	4	24 DCV
	5	48 DCV

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).

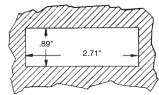
The front bezel protrudes 0.16" (4mm) from the front of the mounting surface.

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.

Installation and Panel Cutout -





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