

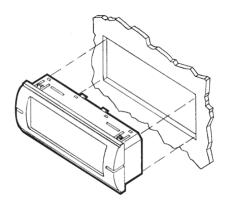
## Mini M135 & M145 Digital Panel Meters



- 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			
Range	M135 Resolution	Input Impedance	Max Input (Unfused)	
200mV	100μV	>100MΩ	50V	
2V	1mV	10ΜΩ	250V	
20V	10mV	10ΜΩ	250V	
200V	100mV	10ΜΩ	250V	

DC Current			
Range	M135 Resolution	Voltage Drop	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		
ACCURACY @ 25°C	3 1/2 digit: ± (0.1% of reading + 1 count)		
A00011A01 @ 20 0	4 1/2 digit: ± (0.04% of reading + 1 count)		
	7 1/2 digit. ± (0.04/8 of reading 1 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 JECTION		
NMDD	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		
Case Material	34-VO, UL-IALEU ADS		

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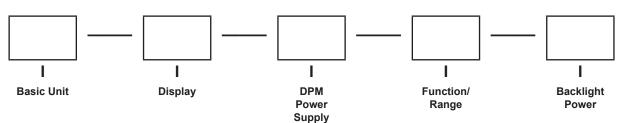


# Mini M135 & M145 Digital Panel Meters

#### **Ordering Information -**

Mini indicators can be configured by making an entry in each section below.





Select From Each One Below			
Basic Unit			
M13	35	3 1/2 Digit LCD	
M14	45	4 1/2 Digit LCD	

Display		
	0	Non Backlit
	1	Negative Read 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	<b>200 DC</b> μ <b>A</b>
	22	2 DCmA
	23	20 DCmA
	24	200 DCmA

One Below			
Ва	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.

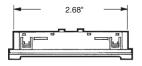
The depth behind the panel, including terminals, is 0.7" (17.8mm).

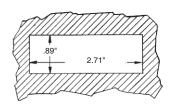
The front bezel protrudes 0.16" (4mm) from the front of the mounting surface.

The unit will snap-mount into panels from 0.050" to 0.125" thick.

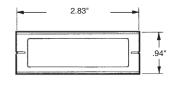
A 12-pin connector with 6" wire leads is included with each unit for quick installation.

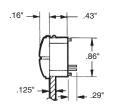
#### Installation and Panel Cutout -





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