

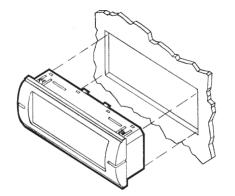
Mini M135 & M145 Digital Panel Meters



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

DC Current				
Range	M135 Voltage nge Resolution Drop		Max Input (Unfused)	
200µA	100nA	200mV	10mA	
2mA	1µA	200mV	40mA	
20mA	10µA	200mV	100mA	
200mA	100µA	200mV	400mA	



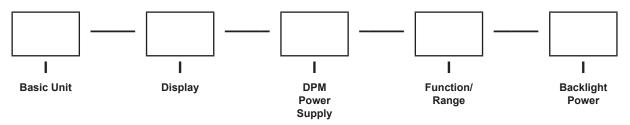
Specifications			
	DISPLAY		
Туре	ype 7- segment LCD		
Height	0.5" (12.7mm)		
Decimal Point Position	User-Selectable		
Overrange Indication	Most significant = "1" other digits blank		
Backlighting	Optional negative image, red backlighting at 5, 10. 12, 24 or 48 DCV		
Polarity	Auto with "-" indication, "+" indication implied		
PO	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)		
	4 1/2 digit: ± (0.04% of reading + 1 count)		
	4 $1/2$ digit. \pm (0.04% of reading \pm 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		
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		



Mini M135 & M145 **Digital Panel Meters**

Ordering Information -

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



Select From Each One Below				
Basic Unit				
M135 3 1/2 Digit L				
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 Each One Below						
Fur	Function / Range			Backlight Power		Power
	11	200 DCmV			0	None
	12	2 DCV			1	5 DCV
	13	20 DCV			2	10 DCV
	14	200 DCV			3	12 DCV
					4	24 DCV
	21	200 DC μ A			5	48 DCV
	22	2 DCmA				
	23	20 DCmA				
	24	200 DCmA				

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 -

