Simpson®

MADE IN THE USA SINCE 1936 · RELIABILITY BEYOND MEASURE

Mini-Max M240 Temperature Indicator

• 3/64 DIN Temperature Indicator

• Jumper – selectable display for ºC / ºF

• Screw terminals connector for easy installation

• Unique mounting bracket allows for stacking of multiple meters

Specifications -

DISPLAY	
Type	7- segment, red LED
Height	0.56" (14.2mm)
Display resolution	0.1º from -99.9º to 999.9º; 1.0º below 100º or above 1000º; 0.1mV for mV indication
Overrange Indication (T/C or mV)	The left-most digit shows 1: "1" (other digits are blank)
Open or faulty input connection	"----"
Uncalibrated instrument	Display will flash continously "INFO FAIL CALB REQD" upon application of power.
Polarity	Automatic, with "-" indication, "+" indication implied

POWER REQUIREMENTS	
AC Voltages	85 - 250VAC @ 50-60Hz
Power Consumption	2 VA

INPUTS	
Thermocouple	J, K
Millivolt	± 70mV (Uncompensated for temperature)
Lead Resistance Effect	-13μV / 100Ω max.
RTD	Platinum 100 Ohm (.00385 alpha)
Lead Resistance Effect	2- and 3- wire 1º / .29Ω max.
Temperature Coefficient	± 0.2ºC / ºC

Input Type	Temperature Range	Accuracy @ 25ºC
K T/C	-100 to 1370ºC -148 to 2498ºF	± (0.1% rdg +1.5ºC) ± (0.1% rdg +2.7ºF)
J T/C	-100 to 1200ºC -148 to 2192ºF	± (0.1% rdg +1.5ºC) ± (0.1% rdg +2.7ºF)
RTD Pt100 (4-wire)	-100 to 850ºC -148 to 1562ºF	± (0.2% rdg +1.5ºC) ± (0.2% rdg +2.7ºF)
mV	-70 to 70mV	± (0.1% rdg +0.1mV)

Input Impedance	22MΩ

ENVIRONMENTAL	
Operating Temperature	0 to 55ºC
Storage Temperature	-10 to 60°C
Relative Humidity	0 to 85% non-condensing
Warmup time	Less than 20 minutes

A/D Conversion Techniques	12 Bit Successive Approximation (SAR)
Rate	10 samples per second

NOISE REJECTION	
NMRR	60dB, 50/60Hz
CMRR	(w / 1kΩ unbalanced @ 60Hz) 90dB min

MECHANICAL	
Bezel	0.94" x 2.83"
Depth	2.36"
Panel cutout	0.89" x 2.71"
Weight	3.5 oz. (99.2 g)
Case Material	94-0, UL-rated, glass-filled thermoplastic

Rev. 10-28-13

# Mini-Max M240 Temperature Indicator

Ordering Information -

Mini-Max indicators can be configured by making an entry in each section below.
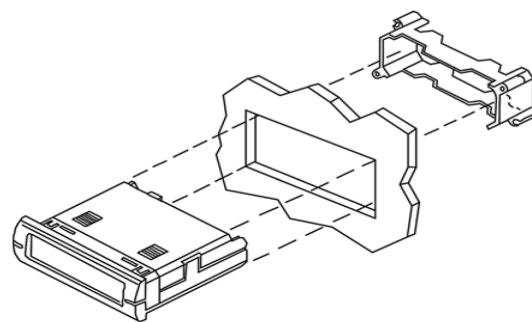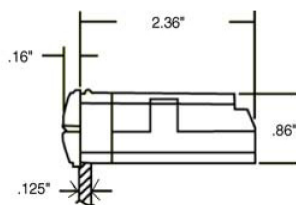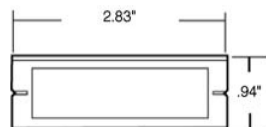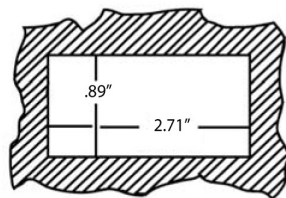Example: M240-0-91-0-F.

Basic Unit	Power Supply	Input	Output	Display
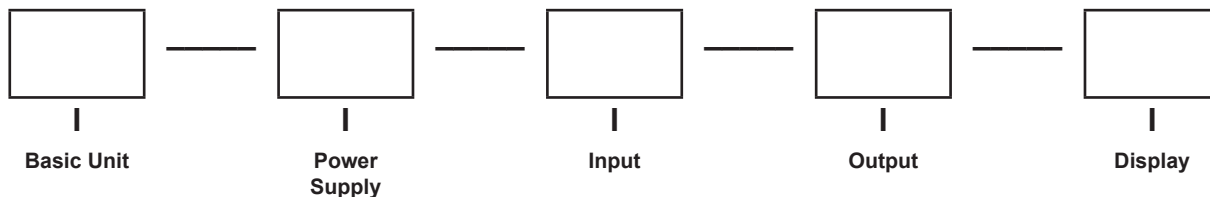
Select From Each One Below							
Basic Unit		**Input**		**Output**			
M240	4 Digit LED	91	J T/C	0	None		
		92	K T/C				
		93	RTD Pt100 Ohm	**Display**			
Power Supply		94	DC mV	C	°C		
0	85-250 VAC			F	°F		
				0	mV (only available with DC mV Input)		

Thermocouples can be found in Accessories
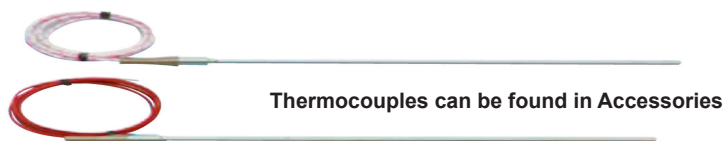
Dimensions and Panel Cutout - M235, M245 & M240

2.66″

.89″
2.71″

2.83″

.94″

2.36″
.16″
.86″
.125″
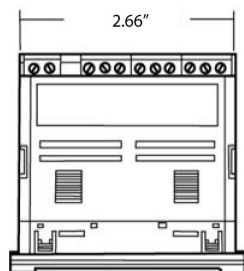
Mounting Instructions

Insert the Mini-Max through the panel, and then slide the mounting bracket on to the Mini-Max.

The mounting bracket allows Mini-Max units to be stacked side-to-side or top-to-bottom.

Panel cutout instructions for stacking multiple units are provided in the operator's manual.

Rev. 10-28-13

Mouser Electronics

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  [M2400910F](#)   [M2400920C](#)