

# wall mount Programmable Temperature Monitor

Offers Programmability, Multiple Display Modes, Alarms, Timers & a Buzzer



wPTM 100 Series

Only

**\$345**

Base Unit

## DESCRIPTION

Housed in a wall-mount, water-tight plastic enclosure, the wPTM 100 Series is a powerful temperature monitor/indicator. wPTM accepts a single Thermocouple, RTD or Thermistor sensor input and then displays the temperature in either degrees C or F. In addition, it also monitors a number of useful functions such as high and low process readings, process run time, rate of process change etc.

Keys are appropriately labeled, so that the user would not have to memorize their functionality. A passcode requirement keeps unauthorised personel from changing critical parameters such as limits, scaling etc.

Four process alarms (optional) are also featured, which are programmable over the entire range of selected input type.

## HIGH VISIBILITY DISPLAY

- Large 7-Segment LED Display (0.8")
- Ease of Viewing from Distance
- Multiple Programmable Display Modes
- Frequently Used Math Functions
- Timer for Process Run Time
- Remote Display Hold

## FULLY PROGRAMMABLE

- Fully Programmable Via Front Keys
- Password for Security
- Program Settings Retained on Power Down
- Sealed Lockable Enclosure
- Protection from Dust & Moisture

## MULTIPLE I/O CHOICES

- Thermocouple, RTD & Thermistor Inputs
- Four Programmable Process Alarms (optional)
- Alarm Status Indication on Front Panel
- Relay or Solid State Outputs (optional)
- Built-in Buzzer to Sound Alarm (optional)
- Two Programmable Timers (optional)

They

can be configured as latching or non-latching, normally open or normally closed. Also provided are two timers (optional) that work independently or in conjunction with process limits e.g. turning on a fan ten minutes after limit 1 temperature is reached. The time function keeps track of process run time.

The wPTM also functions as a rate monitor, indicating instantaneous as well as average rate of temperature change. Programmable time base allows the rate to be displayed in per second, minute, hour or any other interval. Also, the unit can be programmed for a rate alarm. This allows control of a process if a predetermined rate is exceeded or not achieved.



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The wPTM 100 Series can be programmed to indicate in one of seven possible display modes:

- |                         |                           |
|-------------------------|---------------------------|
| 1. Display Process      | 2. Display rate of change |
| 3. Display deviation    | 4. Display max reading    |
| 5. Scan all parameter   | 6. Display min reading    |
| 7. Display elapsed time |                           |

If scan mode is selected, all the above parameters are briefly displayed in a sequence. Dwell time for each mode is programmable.

Additional features include a built-in buzzer which comes on whenever a limit is reached. Visual indication of relay output status is given by LEDs on the front panel. A watch dog timer keeps track of any run away programs due to excessive noise or other malfunctions. The unit also has a power line filter designed in to provide trouble free operation in harsh industrial environment.

<u>TYPE</u>	<u>RANGE</u>	<u>ACCURACY</u>
J	-200 to 1190C -328 to 2174F	+1C+-1cnt +2F+-1cnt
K	-170 to 1370C -274 to 2500F	+1C+-1cnt +2F+-1cnt
T	-160 to 400C -256 to 752F	+1C+-1cnt +2F+-1cnt
E	-185 to 915C -300 to 1675F	+1C+-1cnt +2F+-1cnt
R	0C to 1600C 32F to 2900F	+3C+-1cnt +6F+-1cnt
S	0 to 1600C 32 to 2900F	+3C+-1cnt +6F+-1cnt
B	470 to 1800C 900 to 3300F	+3C+-1cnt +6F+-1cnt
RTD-385	-200 to 800C -328 to 1472F	+1C+-1cnt +2F+-1cnt
RTD-392	-100 to 450C -148F to 842F	+1C+-1cnt +2F+-1cnt
Thermistor	-8.0 to 100.0C 17.2 to 212.0F	+0.5C+-1cnt +1.0F+-1cnt

## SPECIFICATIONS

### INPUT TYPE:

J,K,T,E,R,S,B, Thermistor, RTD  
CJC error: +/- 0.5 C (10C to 45c)  
Other Inputs Available: Consult Factory

### ACCURACY:

Resolution: 1C/F for T/C'S & rtd's.  
0.1C/0.2F for Thermistor

### A/D CONVERSION

20,000 count A/D converter  
Conversion rate: 7/Second (typical)

### DISPLAY

Red 7-segment LED display, 0.8" (20mm) Ht  
Display test: 8.8.8.8.8.8. on power up

### POWER OPTION

120Vac (60 Hz) - Standard 220Vac (50 Hz) - Optional  
15VDC @ 900ma (Optional)

### OUTPUT (optional):

1. Open collector - 6 open collector outputs, maximum sink capability of 50ma per output
2. Relays: Single pole single throw, 1 Amp @ 28Vdc or 0.5 Amp @ 120Vac resistive

Output termination: Euro-style plugable connector

**RATE:** Variable -- Displayed as rate of change/Time Base.

### DIMENSIONS:

Case: 7.55" W x 6.29" H x 4.05" D  
Ingress Protection: Up to IP65 (DIN standard)

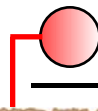
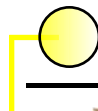


Easy access to keys under protective front cover

## Ordering Guide

To find a model number, fill in blanks 1, 2, and 3 with appropriate selection. Refer to ordering example below:

### wPTM



BM = J, K, T & E Thermocouples  
R = 'R' type Thermocouple  
S = 'S' type Thermocouple  
B = 'B' type Thermocouple  
TH = Thermistor  
RTD = RTD (.00385 & .00392)

5 = 120VAC  
6 = 240VAC  
7 = 15VDC

R = 4 Limit Relays plus two Relays for timer outputs  
OC = 6 Solid State outputs (Open Collector)-- 4 alarms, 2 timers  
BLANK = No output

**Ordering Example:** wPTM100/BM/5/R -- wall-mount Programmable Temperature Monitor with J,K,T or E Thermocouple input, Relay and timer option and 120vac Power.