

## Pocket thermometers PN 6502 – PN 6512



Thermometers for thermocouples or Pt 100 resistance temperature sensors.

Integrated in ergonomic and robust case, they support shocks without damage and can be used in harsh environment. Many sensors are proposed in accessories.

- Important choice of sensors (TC, Pt 100)
- Probe side clip on the case
- Many additional functions : Memory, back-lighted display, alarms, ...

### Functions

#### TC temperature.....

Sensor	Range
K	- 250 to + 1 372°C
T	- 250 to + 400°C
J	- 210 to + 1 200°C
R	- 50 to + 1 769°C
S	- 50 to + 1 769°C
E	- 250 to + 755°C
N	- 240 to + 1 300°C

Resolution: 0.1°C (except R and S couples : 0.5°C) between - 100°C and +300°C and 1°C beyond these values.

1 year accuracy:  
 $\pm(0.2\% \text{ of reading} + 0.2^\circ\text{C})$  between - 100°C and + 300°C,  $\pm(0.2\% + 2^\circ\text{C})$  beyond these values.

Accuracy is given for a reference junction at 0°C.  
Use of internal reference junction may add a max. error of 0.3°C.

#### RTD temperature.....

Sensor	Range
Pt 100	- 200 to + 850°C

1 year accuracy :  
 $\pm(0.1\% \text{ of reading} + 0.1^\circ\text{C})$  between - 100°C and +300°C and  $\pm(0.1\% \text{ of reading} + 1^\circ\text{C})$  beyond these values

Acceptable line resistance : 20  $\Omega$ .  
Measurement current : 400  $\mu\text{A}$ .

### Additional functions

- Hold function (Hold measurement value)
- Statistical functions : Display maximum, minimum and mean measurement values
- Memory : 50 values
- Alarms
- 2 programmable thresholds with visual and sound indication
- Automatic Stop in case of non-use.

## General characteristics

### Display.....

3000 measurement points, Back-lighted LCD,  
High : 12.7 mm

Display indicates (according to the model) :

- Programmed thermocouple type, and the presence or not of the internal reference junction.
- Units (°C or °F)
- State of alarms
- Measure memorisation
- Mode (hold, max, min, avg).

### Use conditions.....

Nominal range of use : 0 to + 50°C, Relative Humidity : 20 to 80%.

### Standards.....

For Pt 100 RTD :  
DIN-CEI 751  
For TC :  
DIN-CEI 584-1

### Power supply.....

9V battery (69LR61 or 6LF22),  
autonomy higher than 100h.

Option : Battery with external charger. Autonomy higher than 20h.

Connection by 2 points compensated miniature connector for PN6502 (TC), by 3 points compensated miniature connector for PN6512 (RTD).

### Presentation.....

Dimensions : 182 x 75 x 43 mm  
Weight : 250 g

## Accessories

- Kit 9V Battery / Charger , including 2 accumulators and a charger for intensive use
- Soft carrying case
- Compensated connectors for K, T, J or S couple connection
- Non compensated for Pt 100 probe
- Sensors : See the specific sensor document

## Choice guide

Thermometer	Sensor
PN 6502	Thermocouples : K T K R S E N
PN 6512	Pt 100

## Ordering instructions

Thermocouple thermometers PN 6502  
Resistance temperature probe (Pt 100) Thermometer PN 6512

Accessories.....	
Battery / Charger Kit	AC 6907
Soft carrying case	AC 6908
Male connector T couple	ER45145-130
Male connector S couple	ER45145-150
Male connector K couple	ER45145-160
Male connector J couple	ER45145-140
Male connector Pt 100	ER45351-005
Sensor	Precise the ref.



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