

TEP2307 - TEP2107 PORTABLE RTD THERMOMETER

Handheld Thermometer with large LCD display. Several sensor connection whit in to Pt100 3 or 4 wires, Pt1000, Ni1000 or NTC 2 wires. Immersion, penetration, contact or air environment probes tips. TP74* probes are equipped with smart modules for self detection/autocal. They are supplied in a carrying case complete with instruction manual and 3 batteries. The probes must be ordered separately.

TEP2307.0 basic instrument. Max, Min and Avg functions to calculate the maximum, minimum and average, REL for relative measure, HOLD, auto power off.

TEP2107.1 is equipped with RS232C serial port for transferring, in real time, the acquired measurements to a PC or to a portable printer. Provided with cable RS232C and downloading software.

TEP2107.2 features as for the previous model, there is a datalogger added with memory up to 80,000 samples which can be transferred to a PC connected to the instrument via the multi-standard RS232C serial port and USB 2.0. From the menu you can configure the storage interval, printing, and baud rate. Provided with cable connection to PC USB and downloading software.



TEP2107



TEP2307

TEMPERATURE PROBES DESCRIPTIONS

RTD PT100 with recognition module - Resolution 0.1°C drift in temperature at 20°C 0.003% / °C				
Model	Type	Range °C	Accuracy	Response time
TP472I	immersion	-196...+500	+/-0.25°C (-196...+350°C); +/-0.4°C (+350...+500°C)	3s
TP472I.0	immersion	-50...+400	+/-0.25°C (-50...+350°C); +/-0.4°C (+350...+400°C)	3s
TP473P.0	penetration	-50...+400	+/-0.25°C (-50...+350°C); +/-0.4°C (+350...+400°C)	5s
TP474C.0	contact	-50...+400	+/-0.3°C (-50...+350°C); +/-0.4°C (+350...+400°C)	5s
TP475A.0	air	-50...+250	+/-0.3°C (-50...+250°C);	10s
TP472I.5	immersion	-50...+400	+/-0.3°C (-50...+350°C); +/-0.4°C (+350...+400°C)	3s
TP472I.10	immersion	-50...+400	+/-0.25°C (-50...+350°C); +/-0.4°C (+350...+400°C)	3s
TP49A	immersion	-70...+400	+/-0.25°C (-50...+350°C); +/-0.4°C (+350...+400°C)	3.5s
TP49AC	contact	-70...+400	+/-0.25°C (-50...+350°C); +/-0.4°C (+350...+400°C)	5.5s
TP49AP	penetration	-70...+400	+/-0.25°C (-50...+350°C); +/-0.4°C (+350...+400°C)	4s
TP875		-10...+100	+/-0.25°C globe thermometer probe for measuring the radiant heat d. 150 mm. (7243, ISO7726), PT100 4-wire cable 2 mt.	
4 wire PT100 and 2 wire PT1000 - Resolution 0.1°C drift at 20°C 0.003%/°C (Pt100), 0.005%/°C (Pt1000)				
TP47.100	PT100 4wire	-50...+400	Class A	3s
TP47.1000	PT1000 2 w	-50...+400	Class A	3s

TECHNICAL SPECIFICATIONS

	TEP2307	TEP2107.1/2
Dimensions WxDxH:	140x88x38mm	185x90x40mm
Weight:	160g (with batteries)	470g (with batteries)
Materials:	ABS	ABS, rubber
Display:	2x4 1/2 digit - symbols, Visible Area 52x42mm	
Working %RH:	0 ... 90% RH, non-condensing	
Protection:	IP67	
Power supply:	3x AA 1.5 V batteries	4x AA 1.5V batteries
Battery life:	200h (alkaline batteries 1800mAh); Power absorbed with instrument off <20µA	
Units:	°C - °F	°C - °F - °K
Connectable probes:	Pt100, Pt1000	Pt100, Pt1000, Ni1000, NTC



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TECHNICAL FEATURES

Storage of measured values, TEP2107.2:	2000 pages x 40 samples / each. = 80,000 total samples
Storage interval:	1s ... 3600s (1hour)
RS232C serial interface:	Type RS232C electrically isolated Baud rate set from 1200 to 38400 baud 8 data bit Parity none 1 stop bit Flow control Xon / Xoff Serial cable length max 15m Instant Printing interval 1s ... 3600s (1 hour)
USB interface, mod. 2107.2:	Type 1.1 - 2.0 electrically isolated
Connections:	8-pole male DIN45326, input probe 8-pole MiniDin Serial and USB Interface Mains adapter (optional) 2-pole connector (positive at center)
Instrument temperature measure:	Range Pt100 -200...+650°C Range Pt1000 -200...+650°C Range Ni1000 -50...+250°C Range NTC -30...+120°C
Resolution:	0.01°C in the range $\pm 199,99^{\circ}\text{C}$ 0.1°C remaining range
Accuracy:	$\pm 0.01^{\circ}\text{C}$ ($\pm 0.05^{\circ}\text{C}$, 2307 model)
Drift after 1 year:	0.1°C/year



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