

WATERPROOF PRECISE THERMOMETER PT-401

PT-401 is a highly accurate and repeatable thermometer with a great number of additional, useful features. Compact housing enables use both in the field and in laboratory. High accuracy and repeatability in the wide range are ensured by the used newest generation electronic components.

Characteristic features:

- The meter cooperates with **CT1U-146** probe with **Pt-100 1/10 DIN** resistor, what enables obtaining high accuracy.
- The measuring range of the probe is **-50 ÷ 300 °C**.
- It is possible to use **CT1B-146** probe with **Pt-100B** resistor with lower accuracy but with measuring range - **200 ÷ 400 °C**.
- The technical details of the sensors are available in separate catalogue cards.
- Replacing the sensor doesn't require calibration.
- The meter is equipped with an easy-to-read backlight LCD display with brightness control.
- 4 wire measuring method makes the measurement accuracy independent from the cable length.
- Possibility of increasing the accuracy by entering the sensor's calibration data.
- The results may be displayed in °C, °F or K.
- In case of continuous measurements information about maximal, minimal and average value is available.
- Alarm function enables setting maximal and minimal threshold value.
- There is a possibility of sending the signal about exceeding the threshold values to external relays.
- Internal datalogger enables storing up to 4000 results taken singly or in series with a given time interval.
- Possible connection with PC by USB.
- Internal clock with date.
- All data is stored in non-volatile memory.



CT1U-146 temperature probe:

Pipe made of stainless steel – **OH18N9**. Dimensions: L= 145 mm , Φ = 4 mm.
Standard handle made of polyamide with 45 mm length and temperature resistance up to 200 °C. Standard cable length: 1m.

Technical data of the meter

Function	°C	°F	K
Meter range	-200.00 ÷ 400.00	-328.00 ÷ 752.00	-73.15 ÷ 673.15
Resolution	0.01 / 0.1 / 1		
Accuracy	±0.25 °C	±0.45 °F	±0.25 K
Accuracy in range*	0 ÷ 100°C: ±0.10 °C	32 ÷ 212 °F: ±0.18 °F	273.15 ÷ 373.15 K: ± 0.10 K
Power	Rechargeable batteries: 2x AA 1.2 V, 5 V / 1000 mA USB power adapter		
Dimensions	L=149, W=82, H=22		
Weight	220		

* The accuracy of the meter with the probe. In range 0 – 100 °C the error usually is lower than the acceptable error. The measuring range is dependent on the range of the applied temperature probe.