

WATERPROOF THERMO / HYGROMETER PWT-401

PWT-401 measures relative humidity, air temperature, enables surface temperature measurement and determines the dew point, what enables deciding whether painting the surface is advisable in existing conditions.

Characteristic features:

- The measurement is made with a good quality humidity sensor.
- The meter is equipped with a large, easy-to-read backlit LCD display with simultaneous readout of RH and temperature value.
- The meter additionally determines the dew point.
- In the standard set a temperature sensor for surface measurement is provided.
- It is possible to choose a relative dew point temperature measurement in relation to the surface temperature.
- Enables also the atmospheric pressure measurement.
- The meter is factory calibrated.
- User's calibration possible in 2 points: 33 % RH and 75 % RH.
- The meter is equipped with easy-to-read backlit LCD display with brightness control.
- "HOLD" function to freeze the result on the display.
- Signalisation of the result stabilisation - "READY" symbol and a sound.
- Possibility of sending to a PC a report of calibration - up to 10 last calibrations.



- **PWT-401** has internal clock with date.
- Internal data-logger for up to 4000 sets of results collected in series with set time interval or singly with temperature, time and date.
- Possibility of connecting with a PC by a micro USB connector.
- Waterproof housing - IP-66.
- Powered by rechargeable batteries, or power adapter with USB - micro USB cable.
- Auto switch off function, with time set by the user, to protect the batteries against discharging.
- 24 months of warranty, quick warranty and after warranty service.

The sensor can't be used for measurements in a dusty atmosphere, chambers with chemical, fat, or oil fumes or in presence of aggressive gases.

Technical Data

Function	Humidity	Temperature	Atmospheric pressure
Range	0 ÷ 100 % RH*	-40 ÷ 70 °C	800 ÷ 1100 hPa
Resolution	0.1 % / 1%	0.1 °C	1 hPa
Accuracy (±1 digit)	10 ÷ 90 % ±1.8% RH beyond this range ±4%	±0.8 °C	±2 hPa
Reaction time t₉₀	< 10 s	< 8 s	-
Hysteresis	< 1% RH	-	-
Long-term sensor drift	< 0.5% RH / year	-	-
Surface temp. measuring range	-50 ÷ 100 °C		
Dew point temperature range	-199.9 ÷ 70 °C		
Power	rechargeable battery 2 x 1.5V (AA), 5 V / 1000 mA USB power adapter		
Weight	180 g		
Dimensions (mm)	L = 149, W = 82, H = 22		

* Condensation of water on the sensor requires drying, wet sensor has wrong indications.