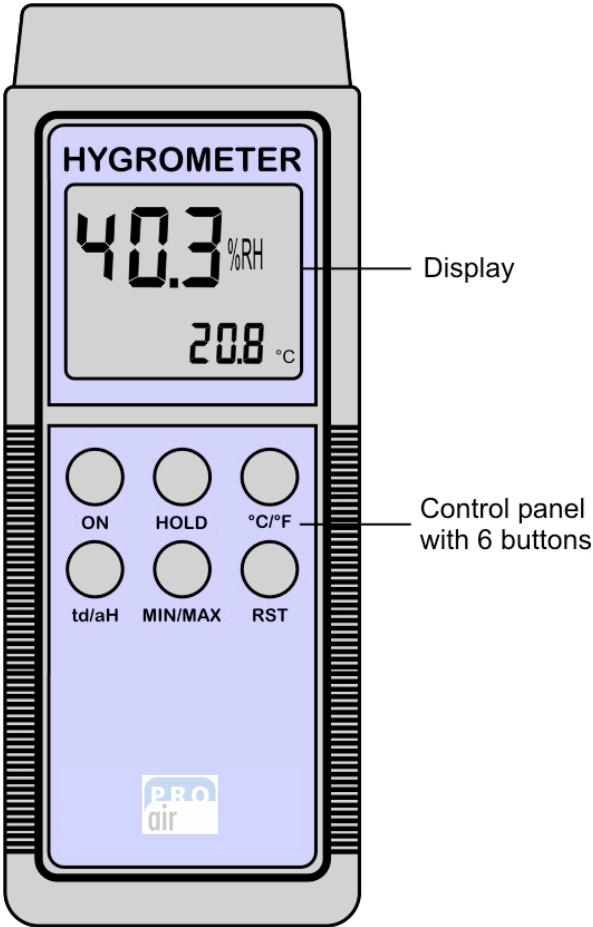


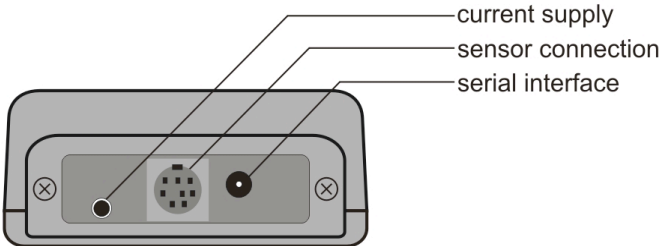
# Brief description of the Handy measuring instrument TPW portable

## Picture of the instrument



## Connections of the instrument

The hygro-thermometer TPW portable is provided with various connection points on the top side:



# 1 Operating instructions

## 1.1 User's manual

For detailed operating instructions of the instrument, please go through the user's manual, which is provided with the instrument.

The manual also contains instructions for calibration of the instrument.

## 1.2 Operating the instrument



Caution ! Connect the probe only after switching off the instrument. Even if you want to change the probe, first turn off the device. During plugging in activity, either the probe or the instrument can get damaged!

The instrument is supplied in calibrated and ready to operate condition. For using the measuring instrument for the first time, please open the battery compartment with a screw driver and put batteries in it..


Connect the sensor connection cable of the measuring probe at the corresponding socket on the front side of the instrument. The relevant arrow mark on the flat side of the plug must point downwards.

Avoid static charge and touching the electric contacts. The instrument or the probe can get damaged by electrostatic discharges!

Switch on the device with the ON button. The current humidity and temperature values are shown on the display.

## 1.3 Display format







During normal operation, the double line LC-Display of the operating panel is used to display the currently measured temperature and humidity values.

Functions under Normal operation	Display contents
Relative Humidity in % rH	
Temperature in °C	

## 2 Operation of the Handy measuring instrument TPW portable











### 2.1 Function of the buttons

The buttons perform the following basic functions:

Name	Function
	Switching ON/ OFF the instrument
	Hold value in the display
	Toggle between °C and °F
	Display Dew point and Absolute humidity
	Display of determined minimum and maximum values
	Reset minimum and maximum values








## 2.2 Display of measured Minimum and Maximum values

The instrument automatically determines the highest and lowest values. These “MIN/MAX” values can be displayed, as desired.

Operation of button	Action	Display contents
	The instrument is in normal operation	
	MIN/MAX-button is pressed	Minimum of measured values is displayed “MIN” sign appears in the display
	MIN/MAX-button is pressed again	Maximum of measured values is displayed “MAX” sign appears in the display
 	On request: The Dew point or Absolute humidity value can be shown on display by pressing the td/aH-button By pressing the MIN/MAX-button, the Min/Max value of the selected parameter can be displayed.	
 	Operate the td/aH-button and MIN/MAX-button again and again till the instrument comes back into normal operation	
	RST-button can be pressed anytime	The measured Min/Max-values are reset by this button






## 2.3 Display of Dew point and Absolute humidity values

The Dew point temperature or Absolute humidity can be alternatively displayed in place of temperature value.

Operation of button	Action	Display contents
	The instrument is in normal operation	
	[td/aH]-button is pressed	Dew point is displayed. "td" sign appears in the display 
	[td/aH]-button is pressed again	Absolute humidity value is displayed. Absolute humidity value is shown in g/m <sup>3</sup> 
	[td/aH]-button is pressed again	Normal operation. Display of temperature and relative humidity values 

## 2.4 Change of temperature scale

The temperature display scale can be changed between the physical units °C and °F.






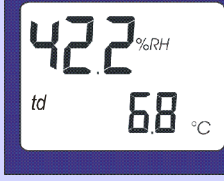


Operation of button	Action	Display contents
The instrument is in normal operation		
 °C / °F-button is pressed	Temperature scale changed to °F In display, the measured value is shown in "°F"	
 °C / °F-button is pressed	Temperature scale is changed back to °C In display, the measured value is shown in "°C"	

**Note:** The selected temperature scale is applicable for all temperature parameters; hence it is also valid for Dew point temperature.

The output format of serial interface does not change. The output is always in °C.

## 2.5 HOLD-Function

The device has the facility to hold the measured values in display. Hence, for example, under unfavourable lighting conditions, the measured values can be read out at some other place.

Operation of button	Action	Display contents
The instrument is in normal operation		
 HOLD-button is pressed	Display of current measured value is fixed "HOLD" sign appears in the display	
 	On request: The finally measured Dew point or the finally measured Absolute humidity value can also be shown with the td/aH-button With the help of MIN/MAX-button, the desired minimum/maximum value of the selected parameter can be displayed.	
 HOLD-button is pressed again	Display shows the current measurements again	

## 2.6 Repair and Calibration service

We are always at your disposal with our service support. For any malfunctioning, you can simply send the product back to us with a short description of the problems observed. Please don't forget to mention your telephone number so that we can contact you for any possible queries.

We shall inform you about the likely amount of repair charges before taking up the repair activity. The cost estimate is provided free. The postage and packing charges for return are to be added over and above the repair costs.

In our calibration laboratory, we can also calibrate your measurement and test equipment of other makes with repeatability of National standards. Please send your enquiries to us; we shall prepare an offer for you without any order commitment!

### Service address:

Pro air GmbH  
- calibration service -  
Peter-Müller Strasse 29a  
80997 München, Germany

Telefon 0049 - 89 / 81888-234

Telefax 0049 - 89 / 81888-236

Email [info@pro-air.eu](mailto:info@pro-air.eu)

Internet [www.pro-air.eu](http://www.pro-air.eu)



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