PeakTech®

Unser Wert ist messbar...

PeakTech® 5160

**Bedienungsanleitung /
Operation Manual**

**Lufttemperatur & -Feuchtigkeitsmessgerät /
Air Temperature & Humidity Meter**

1. Safety precautions

This product complies with the requirements of the following directives of the European Union for CE conformity: 2014/30/EU (electromagnetic compatibility), 2011/65/EU (RoHS).

The following safety precautions must be observed before operation. Damages resulting from failure to observe these safety precautions are exempt from any legal claims whatever:

* Comply with the warning labels and other info on the equipment.
* Do not subject the equipment to direct sunlight or extreme temperatures, humidity or dampness.
* Do not subject the equipment to shocks or strong vibrations.
* Do not operate the equipment near strong magnetic fields (motors, transformers etc.).
* Keep hot soldering irons or guns away from the equipment.
* Allow the equipment to stabilize at room temperature before taking up measurement (important for exact measurements).
* Replace the battery as soon as the battery indicator "▉▉" appears. With a low battery, the meter might produce false reading that can lead to electric shock and personal injury.
* Fetch out the battery when the meter will not be used for long period.
* Periodically wipe the cabinet with a damp cloth and mid detergent. Do not use abrasives or solvents.
* Do not operate the meter before the cabinet has been closed and screwed safely as terminal can carry voltage.
* Do not store the meter in a place of explosive, inflammable substances.
* Do not modify the meter in any way.
* Opening the equipment and service- and repair work must only be performed by qualified service personnel.
* ***Measuring instruments don't belong to children hands.***

<u>Cleaning the cabinet</u>
Clean only with a damp, soft cloth and a commercially available mild householder cleanser. Ensure that no water gets inside the equipment to prevent possible shorts and damage to the equipment.

<u>Introduction</u>
This newly developed instrument measures the current humidity, as well as the current air temperature installed a set of sensors for fast and accurate evaluation of the measurement results.

2. Features

► 3 -digit 10mm LCD display (max. 999)
► Automatic backlight
► Humidity measurement in %R. H.
► Air temperature in °C or °F
► Fast response time of the sensor
► Rugged and compact housing design
► Data hold

3. Specifications

Display	LCD with automatic backlight	
Measurement Range	R.H.:	10% ~ 99%
	Temp. :	-10°C ~ 50°C (14°F ~ 122°F)
Resolution:	R.H.: Temperatur:	0.1 %RH 0,1 °C
Accuracy	%R.H.:	+/- 5,0% (at 25°C; 10~30%RH) +/- 3,0% (at 25°C; 30~99%RH)
	Temperatur:	+/- 1°C (+/- 2.6°F)
Measuring Rate	2 x / second	
Low Battery Indication	Symbol "▭ " shown in the display, if battery voltage is low	
Auto Power Off	After 10 Minutes	
DATA-HOLD	Holds measurement value in display	
Power Supply	9V battery, 6F22 or equivalent	
Operating Environment	-10°C ~ 40°C; <99% RH	
Storage Environment	-10°C ~ 60°C; <70% RH	
Size (WxHxD)	55 x 145 x 35mm	
Weight	158g	

4. Panel Description

1) Temperature / Humidity Sensor
2.) ON - Power switch
3.) Temp. / Humidity - button
4.) HOLD - button
5.) Brightness sensor
6.) Measured value display
7.) Battery compartment (rear)
8.) Thread for tripod (rear)

4.1. Display Symbols

▥ ▤ ▣ ▢	This icon indicates the battery status. An empty battery must be replaced as soon as possible and affect the measurement results negatively
HOLD	Data-Hold: Keeps the current value in display
$^0/_0$	Percent (unit of Relative Humidity)
°Ⓛ	Celsius degree
°Ⓕ	Fahrenheit degree

5. Operating Instruction

1. Press the "ON" button to turn on the unit.
2. Select the desired measurement function:
   Select the measurement function with the option key (3) on the device's side.

The three possible measurement functions are:

% R.H. (Relative Humidity)	**%**
°C Temperature Measurement	°Ⓛ
°F Temperature Measurement	°Ⓕ

After the desired measurement function is selected, the device automatically switches from the selection mode to measuring mode and you can start your measurements.

6. Performing Measurement

General:

1. Temperature measurement:
   The display shows the air temperature in °C/°F.

2. Humidity measurement:
   The display shows the relative humidity in %RH.

   Humidity refers to the amount of water vapor at room or ambient air.

3. To "freeze" the current reading press the "HOLD" - button.
   The display stops updating the measured values and the "HOLD" - symbol appears.

Automatic Power Off:
If the device is no longer used, it will automatically turn off after 10 minutes.

Backlight:
This unit features an automatic backlight, which activates the backlight when the light sensor on the front panel detects low light conditions.

7. Battery Replacement

If the sign "▭" appears on the LCD display, it indicates that the battery should be replaced.

Remove the back cover and open the battery compartment. Replace the exhausted battery with new battery.

Batteries, which are used up dispose duly. Used up batteries are hazardous and must be given in the - for this being supposed - collective container.

NOTE

1. Keep the instrument dry.
2. Keep the probes clean.
3. Keep the instrument and battery out of reach of infant and child.
4. When the symbol " ▭ " appears, the battery is low and should be replaced immediately. When you install battery, ensure the polarity connections are correct. If you will not use the instrument in a long period of time, remove the battery.

7.1. Notification about the Battery Regulation

The delivery of many devices includes batteries, which for example serve to operate the remote control. There also could be batteries or accumulators built into the device itself. In connection with the sale of these batteries or accumulators, we are obliged under the Battery Regulations to notify our customers of the following:

Please dispose of old batteries at a council collection point or return them to a local shop at no cost. The disposal in domestic refuse is strictly forbidden according to the Battery Regulations. You can return used batteries obtained from us at no charge at the address on the last side in this manual or by posting with sufficient stamps.

Contaminated batteries shall be marked with a symbol consisting of a crossed-out refuse bin and the chemical symbol (Cd, Hg or Pb) of the heavy metal which is responsible for the classification as pollutant:

1. "Cd" means cadmium.
2. "Hg" means mercury.
3. "Pb" stands for lead.