PeakTech®

Unser Wert ist messbar...

***PeakTech®* 5305 A**

Bedienungsanleitung / Operation Manual

PH Messgerät / PH 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).

Damage caused by failure to observe the following information is excluded from claims of any kind.

For the operational safety of the device, the following safety instructions for operating the device must be observed.

* Read these instructions carefully and make them accessible to subsequent users.
* Use this device only within its scope and specifications.
* Take all necessary safety precautions, especially when using acids.
* Wear personal safety equipment, gloves and safety glasses when handling chemical products.
* Never operate the device if it is not completely closed.
* Do not operate the device near strong magnetic fields (motors, transformers, etc.)
* Avoid strong vibrations of the device Before starting operation, the device should be stabilized to the ambient temperature (Important when transporting cold to warm rooms and vice versa)
* Do not make any technical changes to the device
* Only qualified service technicians may open the device, as well as perform maintenance and repair work

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

2. Introduction

The PeakTech 5305 A is used to measure the pH of various liquids and liquids. With the removable pH probe, it is possible after the respective measurement to thoroughly free the device and the probe from residues of the liquid and to clean them.
An automatic calibration can be carried out via three measuring points using a key combination.
To protect the measuring electrode, a protective cap is attached to the end of the P 5305 (this is removed during the measurement).

* Digital pH meter with illuminated display
* Liquid temperature measurement (°C/°F)
* Multi-Line, 3½-digit LC Display
* Can be calibrated with 3 calibration points
* Exchangable measuring electrode (dry stored)
* Waterproofed case
* Electrode protective cap

3. Controls


Battery Compartment
Multi-Line LCD with Backlight
Temp/CAL Key
ON/OFF Switch
Screwcap for PH Electrode
Protective Cap for pH Elektrode
PeakTech® 5305 A
14.00
23.4°C
PH/TEMP-METER
TEMP CAL
WATERPROOF

4. Measuring operation

The pH meter is used to determine the pH values of various liquids. Thanks to the display, which has a backlight, and the intuitive handling of the device, the measurement of the pH value can be carried out quickly and in a user-friendly manner.

4.1 Carrying out a pH measurement

In order to carry out the pH measurement, the protective cap protecting the electrode of the probe must be removed. Then the device must be switched on with the on / off switch. The background lighting is permanently on during operation in order to highlight the measured value.

If the pH meter has not been used for a long time, has been in operation for a long time or if it has been used in environments in which stronger external influences can occur, it is advisable to calibrate the device (see point 4.2).

Before measuring, clean the probe with distilled water in order to exclude possible falsifications of the measured value. Carefully dry the probe with a cloth.
Now the probe of the pH meter can be immersed in the liquid to be measured. Make sure that only the bottom 4 cm of the probe is immersed in the liquid.

After completing the measurement, remove the pH meter from the liquid and clean the probe again with distilled water.

The PeakTech 5305 A is able to measure the temperature of the liquid during the pH measurement. The display of the temperature unit can be changed by pressing the Temp/Cal key (°C / °F). The temperature display can also be updated manually by pressing and holding the Temp / Cal key (5 sec.).

If no further measurements are to be made, put the protective cap of the electrode back onto the end of the probe to protect it from contamination or damage.

Proceed as follows:

1. Remove the protective cap from the electrode.
2. Clean the electrode with distilled water and dry it well.
3. Press “ON” to switch on.
4. Immerse the electrode in the test solution and stir gently with the electrode.
5. Press "Temp / Cal" to toggle between ° C and ° F. Press and hold "Temp / Cal" for 5 seconds to calibrate the electrode.
6. Wash the electrode after use. Switch off and put on protective cap.

4.2 Calibration of the pH meter.

For calibration, standard buffer solutions pH6.86, pH4.00 and pH 9.18 are required, which can be obtained from specialist dealers. The measuring device can identify the standard buffer solution of pH 4.00 and pH 6.86 itself and automatically calibrates this value.

1. Pour the standard buffer solution pH 6.86 and pH 4.00 (at approx. 25 ° C) separately into three different clean beakers.
2. Press "ON" to switch on the device.
3. Immerse the electrode in a standard buffer solution pH 6.86 and then stir gently until the value is stable. Press the "Temp / Cal" button for 5 seconds. When the display value "686" corresponds to the standard buffer solution, the calibration is finished.
4. Clean the electrode.
5. Immerse the electrode in a standard buffer solution pH 4.00 and when the measuring value has stabilized, press "Temp / Cal" for 5 seconds.
6. When the display shows "401", the meter changes to the automatic pH4.01 calibration mode. When the display value corresponds to the standard buffer solution, calibration is

complete.

7. Clean the electrode.
8. Immerse the electrode in the standard buffer solution pH 9.18 and stir gently until the display value is stable. If the measured value is within the acceptable error range, the calibration is complete. If not, repeat steps 4 and 6.

Note: For an even more precise calibration, fill the respective buffer solution into two different beakers. One is only used to clean the electrode and the other is only used for calibration. This allows the contamination by foreign matter to be reduced to a minimum.

Note: Perform a calibration if:

- the electrode has been replaced.
- no calibration has been carried out for a long time.
- the device has been used often and for a long time.
- a particularly high measurement accuracy is required.

5. Battery replacement

The PeakTech 5305 A is a battery operated measuring device. After a certain period of use of the device, it may happen that the capacity of the batteries is used up and new batteries have to be inserted. This becomes visible when the display gets darker or looks a little blurry.
To change the batteries, make sure that the device is switched off. Remove the upper screw cap of the device and remove the batteries from the battery compartment. Now insert the new batteries of the appropriate polarity (which is shown in the housing) into the battery compartment. Make sure to use the correct batteries that the measuring device requires (4 x 1.5V AG13 button cells).
After changing the battery, put the screw cap on the device and screw it back on.

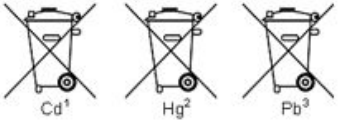
6.Specifications

Display	3 ½-digit, LCD-display max 1999 counts	
Functions	PH: 0.00 to 14.00 pH	Temperature: 0.0°C to 50.0°C
Resolution	0,01 pH	0,1°C
Accuracy	± 0,1pH	± 1 °C
Sampling rate	1 – 2 x Sec.	
Calibration	Automatic (3 points)	
Operation temperature	0°C...+50°C (32°F…122°C); < 80% RH	
Power Supply	4 x 1,5V Batteries (AG-13)	
Dimensions (WxHxD)	188 x 35 x 35 mm	
Weight	80 g	
Accessories	Manual, 4 x 1,5V Batteries (AG-13), Screwdriver	

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.*

This manual considers the latest technical knowing. Technical changings which are in the interest of progress reserved.

We herewith confirm, that the units are calibrated by the factory according to the specifications as per the technical specifications.

We recommend to calibrate the unit again, after 1 year.

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