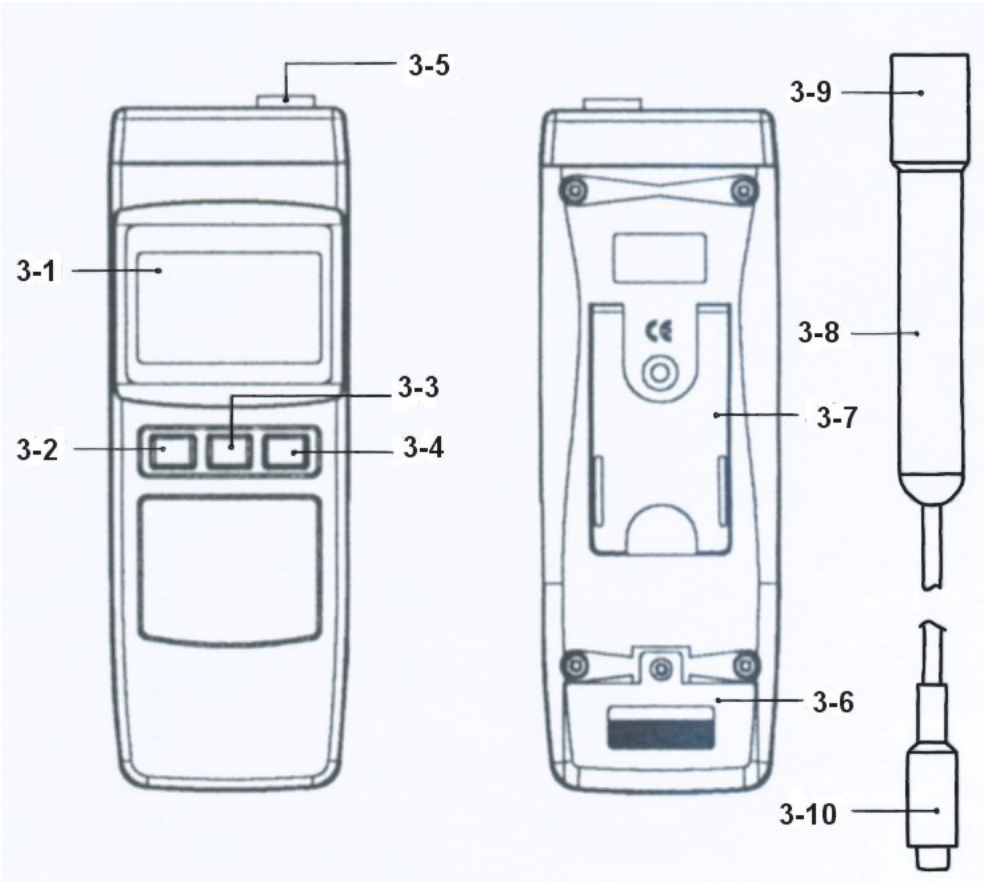
3. Front Panel Description



3-1	Display	3-6	Battery Compartment/Cover
3-2	Power ON Button	3-7	Stand
3-3	Power OFF Button	3-8	Probe Handle
3-4	Hold Button	3-9	Probe Head
3-5	Probe Input Socket	3-10	Probe Plug

4. Application

Water Conditioning *
Aquariums
Beverage
Fish hatcheries
Food processing
Photography
Laboratory
Paper Industry
Plating Industry
Quality control
School and College

* Check the condition of the water filter

5. Measuring Procedure

5.1. Check the filter condition

1. Power on the meter by pushing the "Power On Button" (3-2)

2. a) Hold the "Probe Handle" (3-8) by hand and let the "Probe Head" (3-9) immersed wholly into the measuring water.
   b) Shake the prove several times to let the air bubble leave away from the internal probe and the display will reach to the stable value.

3. First check the reading value (µS) for the water, not make the treatment (not via the FILTER), then record the reading value. (refer Fig. 2).

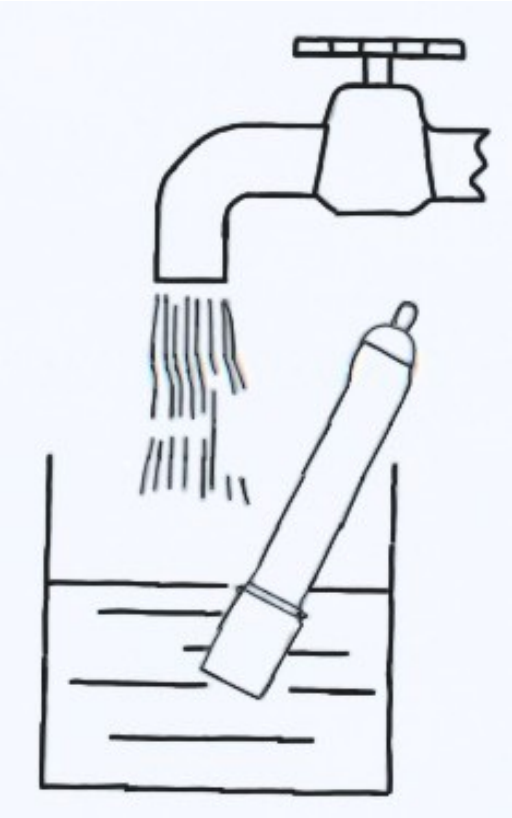


Fig. 2

4. Secondary check the reading values (µS) for the water, that already made the treatment (after the FILTER)
   Ref. Fig. 3

5. If the water quality already is improved, the reading values should be changed with a certain value, otherwise the FILTER is dirty or not under the normal condition.

2. Specifications

Features	Compact size, separate probe. Easy carry out & operation
Display	Large LCD Display, 21,5 mm digit height. Max. display count: 1999
Measurement	0 to 1999 µS *µS – micro Simens
Resolution	1 µS
Accuracy	± (3% + 1 dgt) F.S. (full scale) 23 ± 5°C
Temperature Comparison	Automatic, 0 to 50°C (32 to 122°F)
Data Hold	To freeze the measured conductivity value on the display.
Over Range Indication	LCD display will show "1"
Operating Temperature	0 to 50°C (32 to 122°)
Operating Humidity	Max. 80% RH.
Power Consumption	approx. DC 5 mA
Weight	approx. 270 g (incl. battery and probe)
Dimensions	Main instrument: 200 x 68 x 30 mm
	Sensor probe: Round, 22 mm dia. x 120 mm length
Standard Accessories	Instruction manual Sensor probe

* Do not place the equipment face-down on any table or work bench to prevent damaging the controls at the front
* Do not modify the equipment 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**.

1. General & Principal

* The quality of the water is getting much more concerned by the human being and is also an important factor in the industrial sectors, laboratories or other fields.
* In industrial sectors, it would be a great help for the quality of the products if using the good water (more pure water) in the process.
* It may cause several diseases if home drink water existing high conductivity & contain impurities, the Pure Water Tester (Water Quality Tester) is designed to check the purity of water (water conductivity) also can determine the condition of the "Water Filter" easily and rapidly.
* The tester is used to measure the conductivity value (ranging from 0 to 2000 µS), which can therefore judge, whether water is pure or not. The conductivity value will become lower if there is much less impurities existed in water (for example, distilled water that its purity is higher than others will get a lower conductivity value of approx. <10 µS).
* Many people always take many kind of procedures on water treatment by installing the different kinds of equipment, such as filter or purifier to improve the quality of the water. However, most of people do not know whether the procedures or filter is effective and can contribute to the quality of water. General speaking, the impurities will be filtered out if the water process procedure attain the expected result, thus we can use this instrument to measure the conductivity value of purified water and to judge the effect of the filter (or water process procedures).

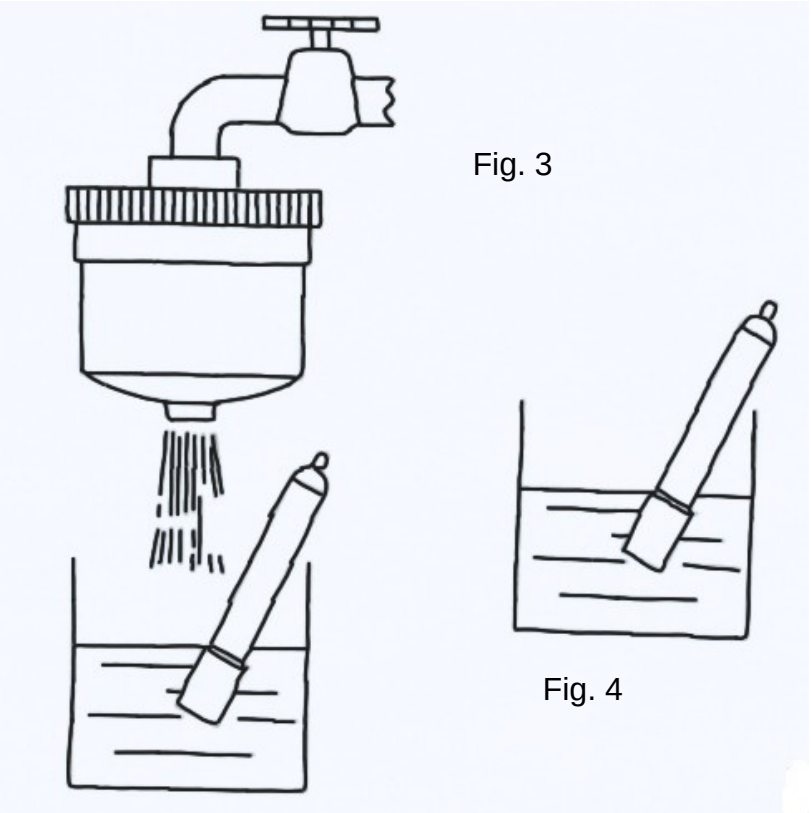


Fig. 3

Fig. 4

5.2. Check the water´s conductivity (water condition)

1. Power on the meter by pushing the "Power On Button (3-2).

2. a) Hold the "Sensor Handle" (3-8) by hand and let the "Sensor Probe" (3-9) immerse wholly into the measuring water. Ref. Fig. 4.
   b) Shake the prove several times to let the air bubble leave away from the internal probe and the display will reach to the stable value, then the display (3-1) will show the conductivity values (µS).

3. a) If the water is pure, then the meter will display the low conductivity values typically. For example the distill water conductivity value will be approx. 10 µS.
   b) If the water contains the impurity, then the meter will show the high conductivity typically.
   c) From the different water´s conductivity value, user can judge the water quality condition. (Due to drinking mineral water contain the mineral material, when measure the mineral water if the meter displays the high conductivity value, it is normal).

5.3. Data Hold

During the measurement, pressing the "Hold Button" (3-4) will freeze the display value, at the same time the LCD will show the "HOLD" indicator. To release the Data Hold function, just press the "Hold Button" again, then the "HOLD" indicator will disappear and cancel the Data Hold function.

6. Measuring Consideration

a) The water´s conductivity value should be less within a reasonable value after the "FILTER" is installed, otherwise the filter is not under normal condition.
b) The conductivity of the pure water will be low value.
c) If the water´s conductivity is high, then the water quality may have some problem. (When test "Drinking Mineral Water", the meter may show the high conductivity value, it is normal).
d) After making the water pure test process, then conductivity value should less.

7. Replacement of the battery

1. When the left corner of LCD display show the indicator "  ", it is necessary to replace the battery. However, in-spec measurement may still be made for several hours after low battery indicator appears before the instrument become inaccurate.

Safety Precautions

This product complies with the requirements of the following European Community Directives: 89/336/EC (Electromagnetic Compatibility) amended by 93/68/EC (CE-Marking). Pollution degree 2.

To ensure safe operation of the equipment and eliminate the danger of serious injury due to short-circuits (arcing), the following safety precautions must be observed.
Damages resulting from failure to observe the following safety precautions are exempt from any legal claims whatever.

* Do not operate the meter before the cabinet has been closed and screwed safely.
* Check test leads and probes for faulty insulation or bare wires before connection to the equipment.
* Comply with the warning labels and other info on the equipment.
* Keep the equipment dry.
* 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.
* To avoid damage or burns, do not make temperature measurement in microwaves ovens.
* 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 “BAT” appears. With a low battery, the meter might produce false reading that can lead to 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 store the meter in a place of explosive, inflammable substances.

2. Slide the "Battery Cover" (3-6) away from the instrument and remove the battery.

3. Replace with 9 V battery, heavy duty type, or equivalent and restate the cover.

4. Make sure, the battery cover is secured after change the battery.

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

This manual is according 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.

PeakTech® - Spitzentechnologie, die überzeugt

Operation manual

Pure Water Tester

PeakTech® 5125

PEWA
Messtechnik GmbH

Weidenweg 21
58239 Schwerte

Tel.: 02304-96109-0
Fax: 02304-96109-88
E-Mail: info@pewa.de
Homepage : www.pewa .de