

Pen type

WATER HARDNESS PURE WATER METER

Model : PWH-303

ISO-9001, CE, IEC1010



FEATURES :

- * Separate Pt glass electrode, high performance for pure water low conductivity measurement.
- * Measurement water conductivity : 0 to 1999 μS .
- * Measurement water hardness : 0 to 1000 ppm.
- * Separate Meter with the probe, easy operation.
- * Hold , Record (max., min.).
- * DC 1.5V battery (UM-4/AAA) x 4.
- * Water conditioning , aquarium , food processing, photography , school ,laboratory, industrial and quality control.



LUTRON ELECTRONIC

The Art of Measurement

Pen type

PURE WATER/HARDNESS METER

Model : PWH-303

FEATURES

* All in one pen type Pure water meter provides fast, accurate readings with digital reading.
* Pure water measurement (uS) or Hardness (ppm) can be selected.
* Pure water : 2,000 uS.
* Hardness : 1,000 ppm.
* Pt glass electrode for long life and low conductivity measurement
* Build in temperature sensor, ATC (auto temperature compensation).
* Temperature measurement, °C, °F.
* LCD with two displays show conductivity and Temp. value at same time.
* Data hold function for freezing the desired value.
* Auto power off to save the battery life.
* Records max. and min. value with recall.
* Microcomputer circuit, intelligent function, high accuracy.
* Compact size, light weight.
* Power supply by DC 1.5 V battery (UM4/AAA) x 4 PCs,
* Available for wide applications, such as aquarium, beverage, fish hatcheries, food processing, photography, laboratory, quality control, school & colleges, swimming pools, water conditions.

GENERAL SPECIFICATION

Display	LCD, size : 20 mm x 28 mm.
Measurement	* Conductivity (uS) * Hardness (ppm) * Temperature (°C, °F)
Ranges	Conductivity : 2000 uS Hardness : 1,000 ppm
Accuracy	± (2% FS + 1 d) * 23 ± 5 °C * FS : full scale
Temperature Compensation	Automatic from 0 to 60 °C (32 - 140 °F), with temperature compensation factor variable between 0 to 5.0% per C.
Conductivity Probe Structure	Pt glass electrode for long life. and low conductivity measurement
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time	Approx. 0.8 second.
Circuit	Custom one-chip of microprocessor LSI circuit.
Power off	Auto shut off saves battery life or manual off by push button. * Power will off automatically after 10 min., if no button be pressed.
Operating Temperature	0 to 50 °C (32 to 140 °F).
Operating Humidity	Less than 80% RH.
Power Supply	DC 1.5V battery (UM-4/AAA) x 4 PCs.
Power Consumption	Approx. 5.7 mA.

Dimension	190 x 40 x 40 mm (7.5 x 1.6 x 1.6 inch).
Weight	171 g/0.38 LB.
Standard Accessories	Instruction Manual.....1 PC Pt glass Probe, CDPB-04.....1 PC
Optional Accessories	* Soft carrying case with sash (210 x 80 x 50 mm), Model : CA-52A * Hard carrying case (280 x 195 x 65 mm), Model : CA-06 * 1.413 mS Conductivity Standard Solution, Model : CD-14A

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Conductivity

Range	Measurement	Resolution	Accuracy
2000 uS	0 to 2000 uS	1 uS	± (3% F.S. + 1d) * F.S. - Full scale
* Auto range. * Temperature Compensation : Automatic from 0 to 60 °C (32 - 140 °F), with temperature compensation factor variable between 0 to 5.0% per C. * uS - micro Simens * 23± 5°C			

HARDNESS (ppm)

Range	Measurement	Resolution	Accuracy
1,000 ppm	0 to 1,000 ppm	1 ppm	± (3% F.S. + 1d) * F.S. - Full scale
* Auto range. * Temperature Compensation : Automatic from 0 to 60 °C (32 - 140 °F), with temperature compensation factor variable between 0 to 5.0% per C. * ppm - parts per millik * 23± 5°C			

Remark:

General the following table describes the water hardness measurement.

Conductivity(uS)	Hardness(ppm)	Water Hardness
0-140	0-70	Very Soft
140-300	70-150	Soft
300-500	150-250	Slightly Hard
500-640	250-320	Moderately Hard
640-840	320-420	Hard
Above 840	Above 420	Very Hard

Temperature

Function	Measuring Range	Resolution	Accuracy
°C	0 °C to 60 °C	0.1 °C	0.8 °C
°F	32 °F to 140 °F	0.1 °F	1.5 °F
* @ 23± 5°C			

* Appearance and specifications listed in this brochure are subject to change without notice.

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