

PWT • UPW

Inexpensively measuring the Purity of Water



Features ...

Pure Water Test (PWT) enables you to check the purity of your distilled or demineralized water in laboratory or industrial environments, while UPW is the Ultra Pure Water tester for Megohm checks. PWT is ideally suited for fields such as Printed Circuit Board washing, laundry, steam cleaning, checking car battery water and all areas where distilled, demineralized or pure water is used. UPW is the first pure water tester to measure in 1/1000ths of micro-siemens and provides on-the-spot and fast checks of minute traces of contamination in your water assuring high quality of finished products in processes. These testers are housed in a completely redesigned and much more durable case that provides excellent protection against harsh industrial environments. The new casing also features a much larger LCD and is easier to handle with a more ergonomic shape.

... and Benefits

- Read conductivity as low as 0.001 $\mu\text{S}/\text{cm}$
- Check quality of your distilled or demineralized water
- Ergonomic, rugged housing
- Long battery life
- Maintenance-free use

Specifications

PWT	
Range	0.0 to 99.9 $\mu\text{S}/\text{cm}$
Resolution	0.1 $\mu\text{S}/\text{cm}$
Accuracy (@20°C/68°F)	±2% F.S.
Typical EMC Deviation	±2% F.S.
Calibration	Manual 1 point through trimmer
Temperature Compensation	Automatic, 0 to 50°C (32 to 122°F)
Battery Type / Life	4 x 1.5V / approximately 250 hours of continuous use
Environment	0 to 50°C (32 to 122°F); RH 95%
Dimensions	175 x 41 x 23 mm (7.9 x 1.8 x 1")
Weight	78 g (2.7 oz.)
UPW	
Range	0.000 to 1.999 $\mu\text{S}/\text{cm}$
Resolution	0.001 $\mu\text{S}/\text{cm}$
Accuracy (@20°C/68°F)	±2% F.S.
Typical EMC Deviation	±0.5% F.S.
Battery Type / Life	4 x 1.5V / approximately 120 hours of continuous use
Environment	0 to 50°C (32 to 122°F); RH 95%
Dimensions	175 x 41 x 23 mm (7.9 x 1.8 x 1")
Weight	78 g (2.7 oz.)

Ordering Information

HI 98308 (PWT) is supplied complete with protective cap, 4 x 1.5V batteries and instructions.

HI 98309 (UPW) is supplied complete with 4 x 1.5V batteries and instructions.

Accessories

HI 70033P	84 $\mu\text{S}/\text{cm}$ @ 25°C cal. sol. for PWT (25 x 20 mL)
HI 7033M	84 $\mu\text{S}/\text{cm}$ @ 25°C cal. sol. for PWT (230 mL)
HI 73308	Probe for PWT (HI 98308)
HI 73309	Probe for UPW (HI 98309)

Typical conversion of the PWT readings

$\mu\text{S}/\text{cm}$ Reading	Resistivity	mg/L of NaCl
99.9	10 K Ω	48
10	100 K Ω	4.3
1	1 M Ω	0.4
0.1	10 M Ω	0.04

Distilled / Deionized Water Resistance in Megohm	Equivalent UPW Readout in $\mu\text{S}/\text{cm}$
1 M Ω	1.000 $\mu\text{S}/\text{cm}$
2 M Ω	0.500 $\mu\text{S}/\text{cm}$
5 M Ω	0.200 $\mu\text{S}/\text{cm}$
10 M Ω	0.100 $\mu\text{S}/\text{cm}$
15 M Ω	0.067 $\mu\text{S}/\text{cm}$
20 M Ω	0.050 $\mu\text{S}/\text{cm}$
50 M Ω	0.02 $\mu\text{S}/\text{cm}$

For a complete range of calibration and maintenance solutions see section F and page G 17.