SPECIFICATIONS:

Range: 0 to 999 ppm (mg/L)

Resolution: 1 ppm

Accuracy (@20°C/68°F): ±2%f.s.

Typical EMC Deviation: ±1%f.s.

Calibration:
Manual, 1 point, through trimmer

Calibration Solution:
RPS821 (800 ppm @ 25°C)

Temperature Compensation:
Automatic, 5 to 50°C (41 to 122°F)

Environment:
0 to 50°C (32 to 122°F); 95%RH

Battery Type: 4 x 1.5V alkaline

Battery Life: approx. 150 hours

Dimensions: 150 x 30 x 21 mm
(5.90" x 1.20" x 0.80")

Weight: 70g (2.5.oz.)

RPT820
WATER QUALITY TESTER
INSTALLATION INSTRUCTIONS

**TDS Meter with Automatic
Temperature Compensation**

BATTERIES:

Expected battery life should be approximately 150 hours. Batteries should be replaced when the display will not turn on or fades. The Tester uses (4) 1.5V coin cells (Type LR44 or 357).
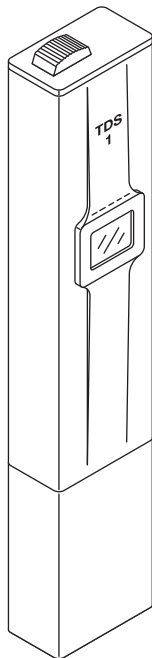
RECOMMENDATIONS FOR USERS:

Before using these products, make sure that they are entirely suitable for the environment in which they are used. Operation of these instruments in residential areas could cause interference to radio and TV equipment. Any variation introduced by the user to the supplied equipment may degrade the instrument's EMC performance. To avoid electrical shock, do not use this instrument when voltages at the measurement surface exceed 24 Vac or 60 Vdc. To avoid damage or burns, do not perform any measurement in microwave ovens.
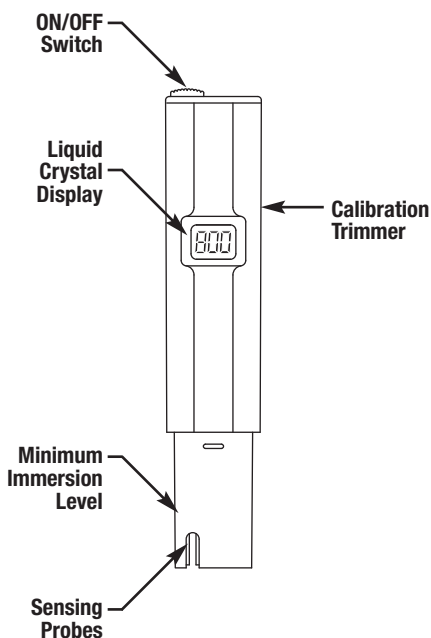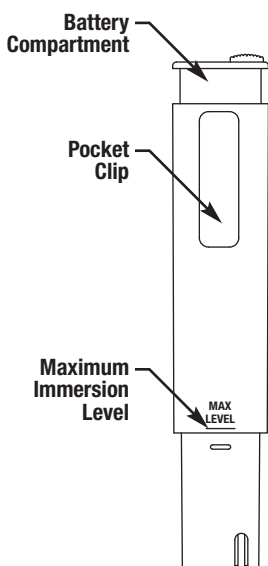
The Water Quality Tester is a meter designed to measure water quality. This meter determines the total amount of dissolved solids (TDS) present in the water being used for sterilization (or for any other water quality purpose). RPI recommends this meter be used with Stat*M*® Cassette Autoclaves. SciCan states the total dissolved solids (TDS) allowable in the water reservoir to be a maximum of 5 Parts Per Million (ppm) or a conductivity of less than 10 micro Siemens (µs/cm). RPI's Water Quality Tester displays its readings in "Parts Per Million" (ppm) and will automatically compensate for temperature variations.

FRONT

BACK

ON/OFF Switch

Liquid Crystal Display

Calibration Trimmer

Minimum Immersion Level

Sensing Probes

Battery Compartment

Pocket Clip

Maximum Immersion Level

MAX LEVEL

INSTRUCTIONS:

1. Remove cap.
2. Turn Meter on (slide switch on top of meter to the on position).
3. Rinse Sensing Probes in distilled water by submersing and stirring gently.
4. Immerse Tester in a water sample without exceeding the max level line and without bottoming out the meter. Stir gently and wait for the reading to stabilize.
5. The reading should be ≤5 ppm.

CALIBRATION:

Check calibration of meter using Calibration Solution (RPI Part #RPS821). Check Meter approximately every 4 months. Check calibration by immersing the Tester in a container of calibration solution (the solution is supplied in a single use pouch and can serve as the container) without exceeding the max level line and without bottoming out the meter. Stir gently and wait for the reading to stabilize.

The calibration solution we carry is certified traceable to NIST Standard Reference Material Potassium Chloride (7447-40-7) and will provide a reading on the Tester of 800 ppm when tested at room temperature (77°F). Consult temperature chart on calibration solution pouch for ppm values vs. temperature condition. SDS sheet available from RPI's website (www.rpiparts.com).

If reading is outside of the calibration solution's rated ppm value, adjust calibration trimmer by inserting screwdriver (supplied with tester) through the hole in the side of tester and adjust potentiometer until the value matches the specified ppm value from the chart on the pouch.