

## **Instruction for Water Quality TDS Meter (included with Model: RO 585A only)**

### **Part No. 578**

#### **Specifications:**

Range	0 to 9990 ppm (mg/L)	Temperature Compensation	5 to 50 C or 41 to 122 F
Resolution	1 ppm	Environment	0 to 50 C or 32 to 122 F
Accuracy	± 2%	Batteries Life	2 x 1.5V (Button Cell)
EMC Deviation	+ 1%	Dimension	6" x 1.1" x 0.75"
Display	LCD	Weight	2 oz or 85 g

#### **Features:**

- Hold function: Freezes measurements for convenient reading & recording.
- Auto-Off function: Turns off meter after 10 minutes of idle to conserve batteries.
- High operating limit: Measures from 1 to 9990 ppm, when reading is over 999, it converts to  $\times 10^3$

#### **Operation**

- Remove the protective cap
- Turn TDS meter on, press ON button
- Immerse into water sample up to the immersion level (about 1 ½ " from tip) without touching the bottom of the water sample container.
- Stir gently and wait until the display stabilizes
- TDS meter compensates for the temperature variance automatically.
- To hold the reading, press HOLD
- Turn off meter, press OFF button

#### **Battery Replacement**

When the TDS meter cannot be switched on or the display fades, pull out the battery compartment and replace two 1.5V batteries, paying attention to their polarity.

#### **Interpreting the Results**

##### **Example:**

Reading #1 Reading from Reverse Osmosis water : 30 ppm

Reading #2 Reading from tap water: 350 ppm

Divide Reading #1 by Reading #2 Reading #1/ Reading #2 = 0.086

one minus the value obtain above the multiply by 100 to get the Rejection of the R.O. membrane or RO system

$1.0 - 0.086 = 0.914$   $0.914 \times 100 = 91.4$  or 91% rejection rate

Your Reading:

Reading #1 Reading from Reverse Osmosis water : \_\_\_\_\_ppm

Reading #2 Reading from tap water: \_\_\_\_\_ppm

Divide Reading #1 by Reading #2 Reading #1/ Reading #2 = \_\_\_\_\_

one minus the value obtain above the multiply by 100 to get the Rejection of the R.O. membrane or RO system

$1 - ( \quad ) = \quad \quad \quad \times 100 = \quad \%$  (rejection rate)

- A new RO system or a new membrane should have rejection rate of 90 to 95%
- Over years of usage the membrane performance will degrade, and membrane should be replaced when rejection rate reaches 80% or below.