

SPECIFICATIONS

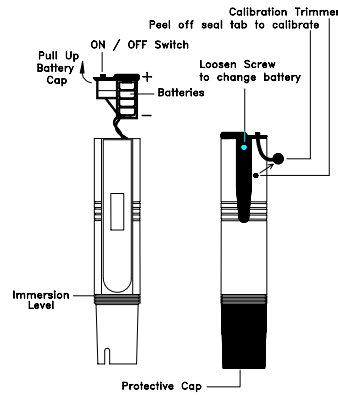
Model	Resolution	Range
TDS	10 ppm	10 to 1990ppm
TDS-2	100 ppm	100 to 19,900ppm
µSiemen	10 µS	10 to 1,990µS
mSiemen	0.1 mS	0.1 to 19.9mS
Accuracy	: ±2% full Scale	
Battery	: 4 x 1.5V button cell (Alkaline A76 or equivalent)	
Battery life	: Approx. 150 hours	
Auto Shut-off	: Approx. 15 minutes	
Operating temperature	: 0° to 50°C	
Temperature Compensation	: Automatic from 0° to 70°C	
Size (LxWxH)	: 170 x 32 x 15mm	
Weight	: Approx. 70 gm	

ECO PAL

HIGH ACCURACY TEST PEN

OPERATION MANUAL

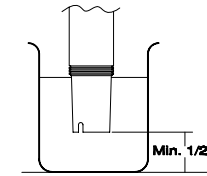
PRODUCT LAYOUT



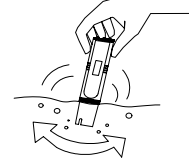
MAKING MEASUREMENT

1. Remove protective cap from bottom (See product layout).
2. To switch on the unit, depress the 'ON/OFF' switch located on top of the tester to 'ON'. If the unit was automatically shut off, depress twice to switch on.
3. Dip tester into sample solution up to the immersion level.
5. Keep still and maintain a distant from the base of solution as below. Wait for a stable reading before readout.

Keep unit still during measuring



4. Shake the sensor area in solution to remove bubbles.
6. Always rinses the sensor area with water and blot it dry before and after each test.
7. Switch off the tester and replace protective cap before storing away.



NOTES ON MEASUREMENT

In the presence of certain radio transmitters, this product may produce erroneous readings. If this occurs then measurements should be repeated at another location.

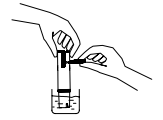
CALIBRATION

Your tester is factory calibrated. It is recommended to re-calibrate every six months to maintain the desired accuracy of the unit.

1. To calibrate, remove protective cap and rinse sensor area with distilled water.
2. Dip in standard solution.

Model	Order Code	Reading
TDS	2020	1380
TDS-2	2100	6400
µSiemen	2010	1410
mSiemen	2100	12.9

3. Follow measuring procedure step 4 to 5 and wait for reading to stabilize.
4. Remove rubber seal tab (see layout).
5. With the use of a small screwdriver, locate the trimmer hole at the back of the tester and trim it to the reading.

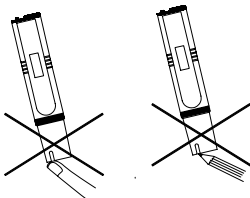


6. Calibration is completed. Replace rubber seal tab and rinse sensor area thoroughly in distilled water before proceeding with any tests.

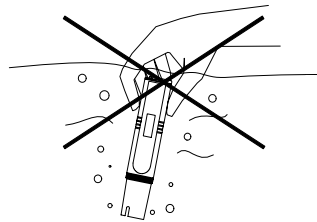
MAINTENANCE

- It is a good practice to soak the sensor area in alcohol every six months for about five minutes. This will clean the sensor and maintain its accuracy.
- At any time if the readings are in doubt, perform a check by testing in the standard solution. If reading is out, re-calibrated unit according to calibration procedure.

Do not touch, rub or scratch the sensor. It is very sensitive and might lose its accuracy.

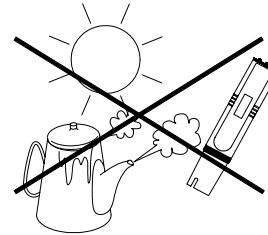


Do not immerse the unit underwater. Though the unit is splash proof and water resistant, it cannot come under pressure and is beyond repair if water gets in unit. If accidentally drop in water, retrieve immediately and wipe dry the unit.

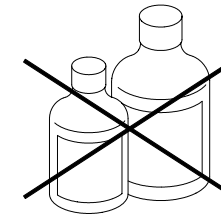


PRECAUTIONS IN HANDLING

Do not store unit under high temperature or direct sunlight.



Do not clean unit with thinner or solvents. This will damage the unit. Use only a damp cloth to clean unit if needed.



OTHER PRODUCTS

Order Code	Range
pH PAL	: 0.0 ~ 14.0 pH
ECO pH	: 0.0 ~ 14.0 pH
pH Pro	: 0.00 ~ 14.00
ECO REDOX	: -999 ~ +999mV
TDS 1 (x10)	: 10 ~ 1,990ppm
TDS 2 (x100)	: 100 ~ 10,000ppm
TDS 3 (x10)	: 10 ~ 1,990µs
TDS 4 (x100)	: 100 ~ 19,900µs
WATER PAL	: 0 ~ 800ppm
WATER PRO	: 0 ~ 9990ppm
PureWaterPAL (ppm)	: 0.0 ~ 99.9ppm
PureWaterPAL (µS)	: 0.0 ~ 99.9µs
TDS Check	: 10 ~ 1990ppm (Direct display)
EC Check	: 0.0 ~ 10.0 EC
cF Check	: 0 ~ 100 cF

LOW BATTERY ALERT

- When the battery symbol appears on the display, this indicates a low battery and only 2 hours of continuous use remain. Though the unit may continue to function, the accuracy of the unit will be affected beyond the 2 hours.

BATTERY CHANGE

To change battery, loosen screw from back of unit, then pull out the battery case from top of unit (see product layout) and replace all four batteries accordingly.