## SPECIFICATIONS

: 1 mV

: ± 10 mV

: 4 x 1.5V

Auto Shut-off : Approx. 15 minutes

Size (LxWxH) : 170 x 32 x 15mm

temperature : 0° to 50°C

button cell

equivalent)

: Approx. 200 hours

(continuous)

: Approx. 70 am

(Alkaline A76 or

: -999 to +999 mV

## **PRODUCT LAYOUT**

## MAKING MEASUREMENT

## CALIBRATION

recommended to re-calibrate regularly to maintain the desired accuracy of the

- 1. Remove protective cap and rinse sensor area with water.
- water and blot it dry before and after 2. calibration.

## Order Code : 1002

- 3. solution and shake the sensor area to remove bubbles and wait for a stable reading.
  - Remove the rubber seal tab and the provided small screw use driver. locate the "Calibration trimmer" at the back of the tester and tune the display to read 475



- Replace seal tab and rinse sensor with tap water.
- Calibration is completed.

REV-C

## PRECAUTIONS IN HANDLING

Range

Resolution

Accuracy

Batterv

Battery life

Operating

Weiaht

Do not touch, rub or scratch the sensor. It is very delicate and might break or loose sensitivity.

ECO

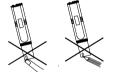
REDOX

HIGH ACCURACY ELECTRO-

CHEMISTRY TEST PEN

**OPERATION** 

MANUAL



**D**o not store unit without the protective cap. Chemical in the unit will expire faster and thus shortening usage life span.

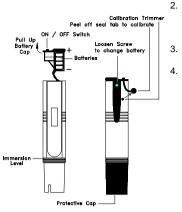


**D**o not submerge the unit underwater. Though the unit is splash proof and water resistant, it cannot come under high pressure underwater and is beyond repair if water get in unit. If dropped into water, retrieve immediately and

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

product.





1. Remove protective cap from bottom 5. Take note not to remove sensor Your tester is factory calibrated. It is (See product lavout)

Press the 'ON/OFF' switch located on top of the tester to switch on. If the unit was automatically shut off. 6. Always rinse the sensor area with depress twice to switch on. 3. Scoop sample solution in a cup or

glass filled up to 2inch or 5cm level. 4. Dip tester into sample solution up to 7. the immersion level. Shake the sensor area in solution to remove bubbles and leave the unit to stav in

solution for at least 15 to 20 minutes

for a stable reading.

**GUIDE TO AQUARIUM** 

CONTROL

## **GUIDE TO POOL & SPA**

to stabilize.

each test.

another location.

NOTES ON MEASUREMENT

Switch off the tester and replace

In the presence of certain radio

transmitters, this product may produce

erroneous readings. If this occurs then

measurements should be repeated at

protective cap before storing away.

MAINTENANCE

• When the battery symbol 🎽 appear This tester is use to indicate the balance This tester is commonly use to indicate of electrons in the aquarium water. sanitize residual in pool water. It does Water with a high Redox potential is of not measure the sanitized residual itself. but rather the electrical potential created unit may continue to function, the oxygen and complete mineralized of all by the presence of sanitizing agent -- this organic waste material. Water with a low is call the Oxidation-Reduction Potential Redox potential would in contrast, be or Redox Potential in short. When the voltage reading is 650 mV, there is sufficient active sanitizing agent in the water to protect swimmers and bathers. Below is a guide for chlorine sanitizing control: LOW - 600mV IDEAL - 650mV to 750mV HIGH - 900mV Fluctuation in pH will affect Redox

reading. \*pH MUST BE 7.4 TO 7.6 TO OBTAIN

AN ACCURATE REDOX READING

- Oxidation of cvanide and chromatic waste
- Bleaching of pulp
- Manufacture of bleach

•	Water	pollution	control

- Reduction of chromate waste
- Pool & spa maintenance
- Aquarium waste control

from the solution while taking reading. Otherwise it will take another 15 to 20 minutes for reading unit.

- Use 475mV standard solution for

- Dip sensor area into the standard 4.



- 5.
- 6.

OTHER PRODUCTS

Order Code		Range		
ECO pH	:	0.0 ~ 14 .0 pH		
pH Pro	:	0.00 ~ 14.00pH		
ECO TDS	:	10 ~ 1,990ppm		
ECO TDS 2 (x100)	:	100~10,000ppm		
ECO µSIEMEN	:	10 ~ 1,990µS		
ECO mSIEMEN	:	0.1 ~ 19,9mS		
WATER PAL	:	0 ~ 800ppm		
PureWaterPAL(ppm)	):	0.0 ~ 99.9ppm		
PureWaterPAL (µS)	:	0.0 ~ 99.9µs		
TDS Check	:	10 ~ 1990 ppm (Direct display)		
Horti Care TDS Check	:	100~ 10000ppm		
Horti Care EC Check	::	0.0 ~ 10.0 EC		
Horti Care cF Check	:	0 ~ 100 cF		

Do not store unit under

high temperature or direct

sunlight. This will shorten

the life span of the

on the display, this indicates a low battery and only 2 hours of continuous use remain. Though the high quality, containing much surplus accuracy of the unit will be affected beyond the 2 hours.

MAINTENANCE

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

• To improve performance of tester, clean the electrode periodically by rinsing it in 10% HCL for a maximum period of 5 seconds. Rinse sensor area thoroughly in distilled water before proceeding with more tests.

- Note that the unit have a limited life span of about a year. When the unit fails to calibrate or response very slowly, it means that the unit should be replaced. It is not possible to . repair broken, defective or expired unit.
- slow moving and cloudy, and would contain waste material that is incompletely broken-down. This waste is harmful and causes stress or even death to aquatic life.

Marine Fresh water - 200mV or higher

individual life species will have a different reading. Higher reading is preferred.

APPLICATIONS

- 300mV to 450mV

# This reading only serve as a guide and