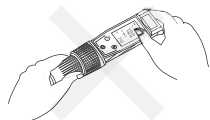


ORP30 ORP Tester

OPERATION MANUAL

SAFETY MEASURES

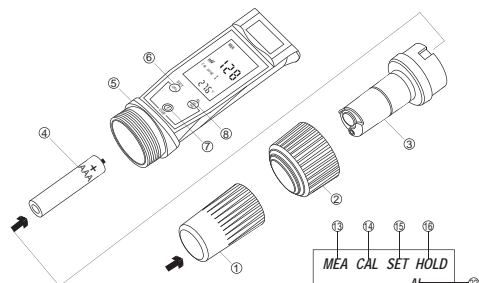


Do not throw or beat ,squash or twist the meter deliberately.

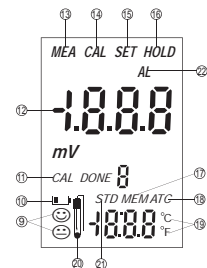


Do not expose to the direct sunlight or put in high humidity or high temperature environment .

CONFIGURATION and LCD INTRODUCTION



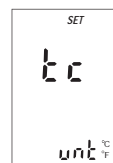
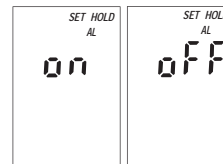
- 1 Sensor Protection Cap
- 2 Screw Cap
- 3 Plane Electrode
- 4 Batteries AAA 1.5V
- 5 Housing
- 6 CAL(UP) key
- 7 ON/OFF key
- 8 HOLD/MEM(DOWN) key
- 9 Sensor Slope Indicator ☺ ☹
- 10 Low Power []
- 11 CAL Indicator
- 12 ORP Display Area
- 13 Measurement Indicator
- 14 Calibration Indicator
- 15 SET Indicator
- 16 HOLD Indicator



- 17 Memory Indicator
- 18 Auto Temperature Compensation
- 19 TEMP. Display °C/°F
- 20 Sensor Indicator
- 21 Buffer Solution Indicator
- 22 Auto Lock Indicator

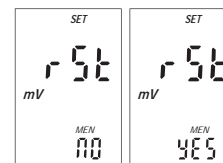
SET UP

Power on the meter with CAL and ON/OFF until the right figure come out and enter the next setting. It is the auto lock function .Press HOLD or CAL to choose NO or YES to operate. Press ON/OFF to confirm and go to next setting.



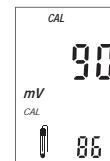
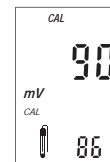
On the left is the Temperature unit choosing figure. Press the CAL and HOLD to change the temperature unit . Press ON/OFF to go to next setting.

The right figures are the data clearing function. Press HOLD or CAL to choose YES or NO to clear or not. Press ON/OFF to go to the next setting.



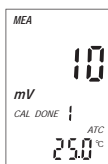
CALIBRATION

In measuring mode, press CAL for 5 seconds to enter the calibration mode, as the right figure shows. This tester can have two point calibration: 86mV and 255 mV.



Testers can automatically tell the buffer solutions and display the value on the lower line, while the reading will be shown on the upper line. After calibration, the tester will go back to the measuring status.

The tester can have 2 point calibration (86mV, 255mV). On top of the line is the number calibrated, to make the calibration more convenient.



Error messages:

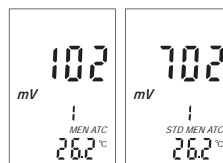
ER1: the buffer solution is out of the temperature of 0-45°C

ER2: the tester cannot tell the buffer solutions.

ER3: the tester can not finish the calibration within 3 minutes.

MEMORY AND RECALL

In measurement mode, press and hold the HOLD key until the Hd disappear. The LCD will display "MEN"(0-9),which means the readings will be saved. Release the key, it will return to measurement mode in 3 seconds.

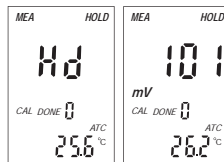


In measurement mode, press CAL and HOLD at the same time for 0.5 second, user can read the recorded memory. Press CAL or HOLD key to get the records from 0 to 9 (with 10 records available). If the record is empty then it will display record number only. It will return to measurement mode in 5 seconds if no key is pressed.

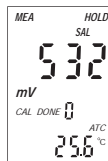


HOLD

Press HOLD for 0.5 second in measurement mode. The LCD will display "Hd" as in right figure. Release HOLD and lock the readings. Press HOLD for another 0.5 second, exit from the HOLD and back to the measurement mode.



When the auto lock function is enabled, once the measurement value is stable, the readings will be locked . Press HOLD for 0.5 second to return to the measurement mode.



TROUBLE SHOOTING

1. LCD display , that means low battery . User should change new battery. The instrument will auto power off if the battery voltage is lower than 0.7 V.
2. ER1: In calibration mode, Er1 means the temperature of standard solution is out of the range of 0-4.5°C . User can adjust the temperature into this range.

FEATURES



Ergonomic design strong and waterproof housing



Unique LCD backlight



Auto lock function for throw measuring application



One AAA battery with 500 hours lifetime

PARAMETER

| | |
|-------------------|---|
| Model | ORP-30 |
| Range | -900 to +900 mV |
| Resolution | 1mV |
| Accuracy | ± 1mV |
| Temperature Range | 0 to 100 °C or 32 to 212 °F |
| Calibration point | 86mV, 255mV |
| Reading lock | Auto / Manual |
| Memory | 10 sets |
| Electrode | CS2930 platinum plane electrode |
| Power | 1X1.5V AAA battery,lifetime > 500 hours |
| Dimensions | 164mm*37mm*40mm |
| Weight | 90g |

Manufacturer:
First Clean Corporation
2172 Durazno Dr., Hacienda Hts., CA 91746, U.S.A.
<http://www.cleaninst.com>