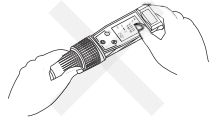


FCL30 Free Chlorine Tester

OPERATION MANUAL

SAFETY MEASURES

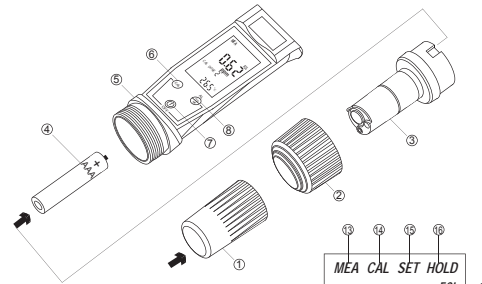


Do not throw or beat ,squash or twist the meter deliberately.

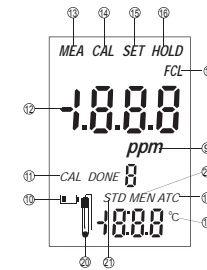


Do not expose to the direct sunlight or put in high humidity or high temperature environment .

CONFIGURATION and LCD INTRODUCTION



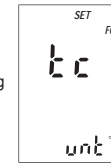
- 1 Sensor Protection Cap
- 2 Screw Cap
- 3 Free Chlorine Electrode
- 4 Batteries AAA 1.5V
- 5 Housing
- 6 CAL(UP) Key
- 7 ON/OFF Key
- 8 HOLD/MEM(DOWN) Key
- 9 Unit Sign
- 10 Low Battery Sign
- 11 Calibration Status Indication CAL DOWN
- 12 Main Display Area
- 13 Measuring Mode MEA
- 14 Calibration Mode CAL
- 15 Setting Mode SET



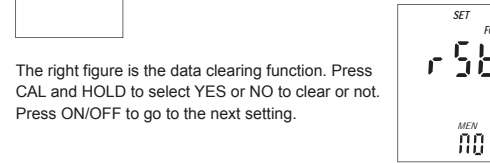
- 16 Lock Mode HOLD
- 17 Memory Indicator MEM
- 18 Thermometer ATC
- 19 Temperature Display °C
- 20 Electrode Indicator
- 21 Standard Buffer Indicator STD

SET UP

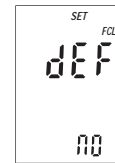
Press and hold CAL and then press ON/OFF to power on the meter until the LCD displays as the right figure. Release CAL and enter the setting mode. On the right is the Temperature unit choosing figure. Press the CAL and HOLD to change the temperature unit . Press ON/OFF to go to next setting.



Left figure 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.



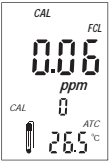
The right figure is the data clearing function. Press CAL and HOLD to select YES or NO to clear or not. Press ON/OFF to go to the next setting.



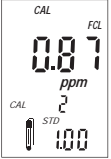
The right figure is Factory Default Setting function. Press HOLD or CAL to choose NO or YES to operate. Press ON/OFF to confirm and return to measurement status.
Note: press key for 0.5 second the system will skip to the next function. The meter will return to the measurement mode if no button is pressed for 15 seconds.

CALIBRATION

In measuring mode, Press and hold CAL for 3 seconds enter calibration mode. First calibrate the zero point. Dip the electrode into pure water or deionized water until the reading has stabilised. Press ON/OFF to confirm and go to the next setting.

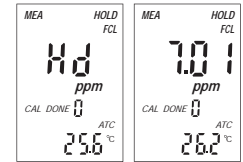


Dip the electrode into the FCL sample and stir until the reading has stabilised. Press CAL/HOLD to adjust the reading to the sample solution's. Press ON/OFF to confirm .

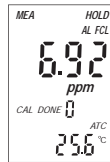


HOLD

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.

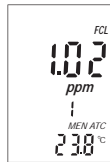


When the auto lock function is enabled, once the measurement value is stable, the readings will be locked. Press HOLD for 0.5 second to return to the measurement mode.



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.



TROUBLE SHOOTING

1. ER1 : 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. ER2 : When in the second point calibration, ER1 indicates the buffer solutions' value is below 0.25 ppm or the electrode is broken. User should change the buffer solution or the electrode.
3. ER3 : When saving data, Er2 means the reading is out of the range. Please check the data.

FEATURES

- Waterproof, Dustproof Housing - IP67 rated.
- Use Tri-electroded method measuring: faster and accurate, matching up to DPD results.
- 1 to 2 points calibration.
- MHX 4-Part-Design: firm comfortable grip, easy maintenance: no tools needed to change batteries or electrode.
- User replaceable CS5930 Free chlorine electrode.
- Hull structure: floating on the water surface, no rolling, screen up.
- Large LCD with stored-energy backlight for easy meter information reading.
- 10 data sets memory stores and recalls.
- With 2x1.5V AAA batteries, more than 500 hours lifetime.
- Self-Diagnostic for easy troubleshooting (e.g battery indicator, message codes)
- Option: A530 regulator flow tank.

Tips: To achieve more stable measuring value, it is recommended to use a flow cell or a magnetic stirrer as a facility.

PARAMETER

Model	FCL30
Range	0 - 10.00 ppm
Resolution	0.01 ppm
Accuracy	±1% F.S.
Temperature Range	0 ~ 100 °C or 32 ~ 212 °F
Calibration Type	2 points
Lock	Auto / Manual
Memory	10 sets
Electrode	CS5930
Auto power off	6 minutes no key is pressed
Protection	IP67
Power	2X1.5 V AAA batteries
Dimensions	164*37*40 mm
Weight	100g

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