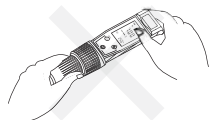


# PH30 pH Tester

## OPERATION MANUAL

### SAFETY MEASURES

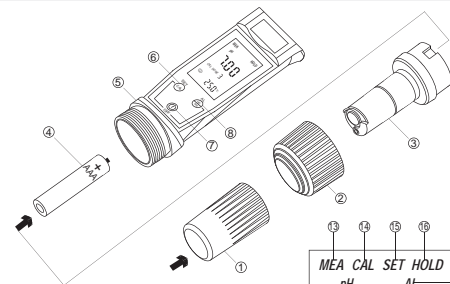


Do not throw or beat ,squash or twist the meter deliberately.



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

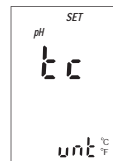
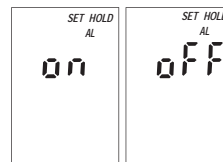
### CONFIGURATION and LCD INTRODUCTION



- 1 Sensor Protection Cap
- 2 Screw Cap
- 3 pH Sensor
- 4 Battery 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 Indicator
- 11 CAL Indicator
- 12 pH 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

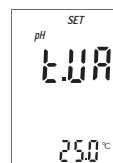
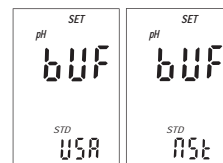
### SET UP

The right figures are to set the Auto Hold function. Press HOLD or CAL to select. Press ON/OFF to confirm and go to the next setting.



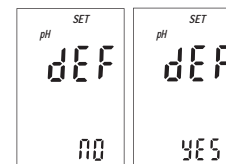
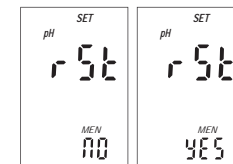
Power on the meter with CAL and ON/OFF until the left figure come out and enter the next setting. Press HOLD or CAL to choose temperature unit. Press ON/OFF to confirm and go to the next setting.

The right figures show the buffer systems, with USA and NST selectable. Press HOLD or CAL to select. Press ON/OFF to confirm and go to the next setting.



Left figure is the manual temperature compensation setting indication. Press HOLD or CAL to set up the temperature compensation value. Press ON/OFF to confirm and go to the 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.

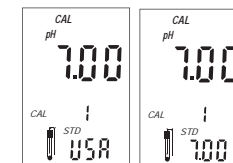


The left figure is Factory Default Setting function. Press HOLD or CAL to choose NO or YES to operate. Press ON/OFF to confirm and return to measurement status.

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.

### CALIBRATION

In the measurement mode, press CAL key to enter the calibration mode, (Please refer to the right figures.). Meter will display USA or NST systems.  
 USA: 1.68, 4.01, 7.00, 10.01, 12.45  
 NST: 1.68, 4.01, 6.86, 9.18, 12.45



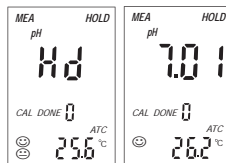
Tester can automatically tell buffers and display buffer value at the TEMP area. After the reading has stabilised, the tester will stop blinking the electrode indication sign and back to the measurement mode. Tester can calibrate up to 5 points. The CAL DONE number will show how many points you calibrated.



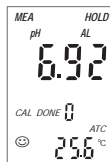
- ☺ indicates the slope is between 115%~85%
- ☹ indicates the slope is between 85%~70%

### 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.

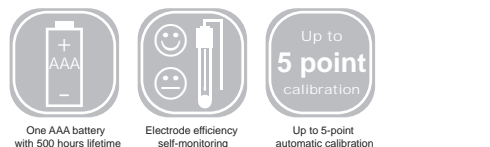
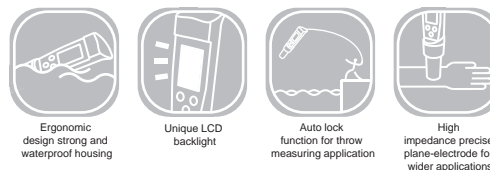


### TROUBLE SHOOTING

1. LCD display , that means low battery. User should change new battery. The instrument will auto power off if the battery voltage is lower than 0.7V.
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.

3. ER2: In calibration mode, Er2 means standard solution cannot be recognized or standard solution is not correct. User can use the new standard solution to have 2 point Calibration.
4. ER3: In calibration mode, Er3 means the reading can not be stabilized in 3 minutes. User should change new electrode and calibrate again.
5. ER4: When saving data, Er4 means the reading is out of the range.

### FEATURES



### PARAMETER

|                        |  |
|------------------------|--|
| Model                  | PH-30  |
| pH Range               | -2.00 to 16.00 pH  |
| pH Resolution          | 0.01 pH  |
| pH Accuracy            | ± 0.01 pH  |
| Temperature Range      | 0 to 100 °C or 32 to 212 °F  |
| Temperature Resolution | 0.1 °C or 1 °F   |
| Calibration Point      | Up to 5 (auto recognized)  |
| pH Buffer Kinds        | USA-pH 1.68, 4.01, 7.00, 10.01, 12.45<br>NIST-pH 1.68, 4.01, 6.86, 9.18, 12.45   |
| Sensor                 | Replaceable plane-electrode  |
| LCD Display            | Low battery indication<br>Electrode efficiency<br>Error messages   |
| ATC                    | Yes  |
| Memory                 | 10 sets  |
| Protect Level          | IP67   |
| Special Functions      | Large customized display<br>Buffer auto recognized<br>Hold function<br>Auto lock function<br>Auto power off in 6 minutes |
| 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>