User's Guide

Free and Total Chlorine Meter
FTC-420

CE

Introduction:

We thank you for purchasing FTC-420 portable free and total chlorine meter.

Before using the instrument, please note that the operation instructions should be read carefully, which will help you to operate and maintain the instrument, as well as to avoid trouble caused by unsuitable operation and maintenance.

FTC-420 portable meter employs leading edge technology with integrated microprocessor, which is suitable for measurement in water solutions for institutes, industrial labs and production fields.

The information presented in this manual is subject to change without notice as improvements are made.

Features:

1. Microprocessor based for fast and accurate measurements.
2. EPA approved DPD method.
3. Large LCD 45 x 25 mm display for reading convenient.
4. Memory function stores and recalls up to 150 points.
5. Low battery alarm and auto shut off after 10 minutes of non use.

Specifications:

Range	0 ~ 5.00 ppm
Resolution	0.01 ppm
Accuracy	± 0.03 + 1 digit at＜2.00 ppm ± 3% FS + 1 digit at＞2.00 ppm
Response	＜5 seconds
Operating	0 ~ 50 ℃, ＜85% RH
Sample	10 ml
Data memory	Storage /recall up to 150 points
Power	DC 1.5V (UM4, AAA) battery x 4
Dimension	Meter: 70 x 135 x 65 mm
Weight	Meter: 168 g(including battery)

Accessories:

Upon receiving the shipment, please inspect the container and equipment for any signs of damage. Please verify that you have received the corresponding accessories as below:

FCL Reagent strip x 50 pcs(DPD-1)
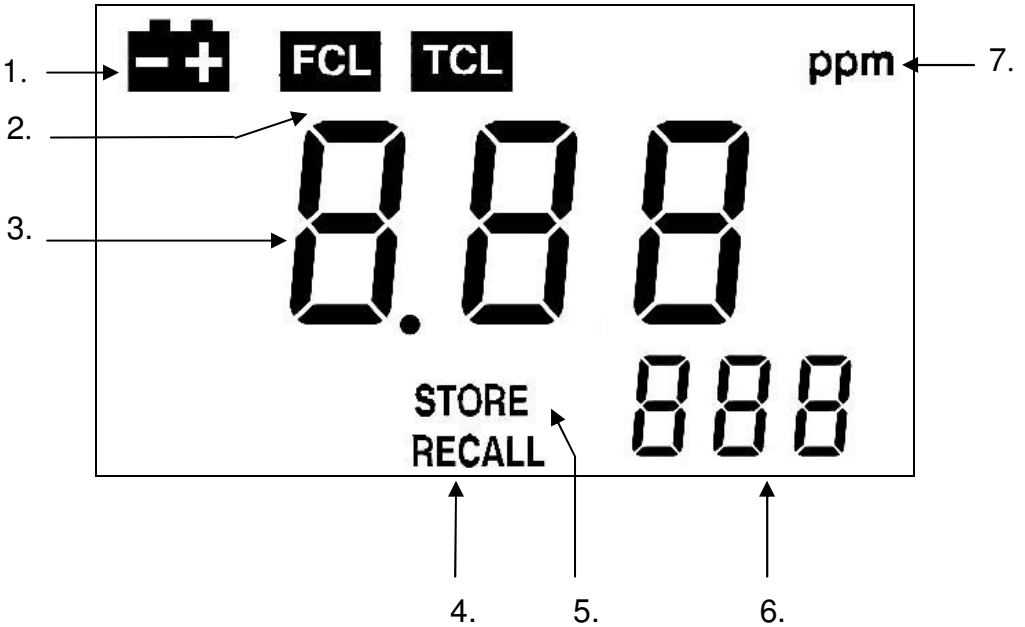**TCL Reagent strip x 50 pcs (DPD-4)**
Glass testing bottle x 2
Distilled water
Clean cloth
Cup
Battery
Carrying case

Display Description:

1. Battery low sign
2. FCL or TCL mode
3. Reading
4. Recall mode
5. Data stored sign
6. The ordinal number of the stored reading
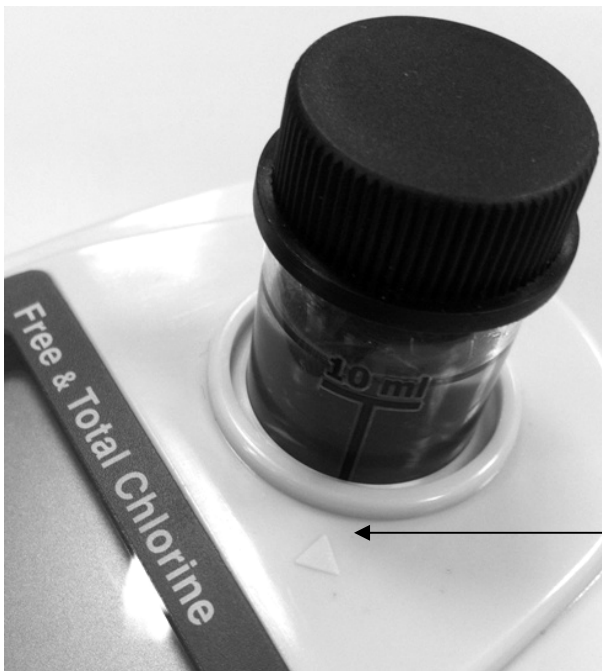7. Unit

Functions of Keyboard:

(⏻)	Power key.
(FCL/TCL ▲)	Choose FCL or TCL mode. In Recall mode, browse records.
(ZERO ▼)	Zero calibration. In Recall mode, browse records.
(STO RCL)	Store the current reading. Press 3 sec. to enter Recall mode.

Measurement:

1. Press (⏻) to turn the meter on.

2. Press and hold (FCL/TCL ▲) for two seconds to choose FCL or TCL mode.

3. Fill the sample solution into the glass bottle and screw the lid back, and use the soft cloth to clean the bottle.

4. Put the bottle into the meter, and make the line on the bottle aligned with the arrow on the meter (as the fallowing picture).

5. Press and hold (ZERO ▼) for two seconds to proceed ZERO calibration.

6. After the display stops flashing and shows "0.00", take

the glass bottle out.

7. Unscrew the lid and put one FCL (DPD-1) or TCL (DPD-4) reagent strip into the sample solution and move the strip in a gentle back and forth motion (approx. 2 strokes/sec) for 20 seconds.

8. Screw the lid back and use the cloth to clean the bottle. Put the bottle back to the meter and make the line on the bottle aligned with the arrow on the meter (as the fallowing picture).

9. Press (FCL/TCL ▲) to get the FCL or TCL reading.

10. Please rinse the glass bottle after testing to prevent the reagent from remaining in the bottle.

Please make the line on the bottle aligned with the arrow on the meter.

Store and Recall mode:

1. After getting a reading, press $\overset{\text{STO}}{\underset{\text{RCL}}{}}$ to store the current reading. The **Store** icon and the ordinal of this record will appear on the display.

2. Press and hold $\overset{\text{STO}}{\underset{\text{RCL}}{}}$ for 3 sec. to enter Recall mode. In this mode, use $\overset{\text{FCL/TCL}}{\blacktriangle}$ or $\overset{\text{ZERO}}{\blacktriangledown}$ to browse records. Press and hold $\overset{\text{STO}}{\underset{\text{RCL}}{}}$ to exit this mode and return to measuring mode.

3. In Recall mode, press $\overset{\text{FCL/TCL}}{\blacktriangle}\overset{\text{ZERO}}{\blacktriangledown}$ together for 3 sec. to clean all the records in the memory.