



# pH PAL PLUS pH TESTER

## Operating Instructions

Product code:

**813-513**

**INSTRUMENT OPERATION** - To begin taking measurements remove the blue cap covering the electrode. Press ON/OFF to switch the unit on and place the sensor in the solution to be measured (*immersion level only*). Stir the solution and allow a few seconds for the measurement to stabilise. The instrument will automatically turn off after 10 minutes of inactivity or press and hold the ON/OFF button. To prolong the life of the unit, please read the care & maintenance/storage & cleaning sections.

**HOLD FUNCTION** - Press the HOLD button to freeze the reading, the display will freeze. Press the HOLD button again to resume taking measurements.

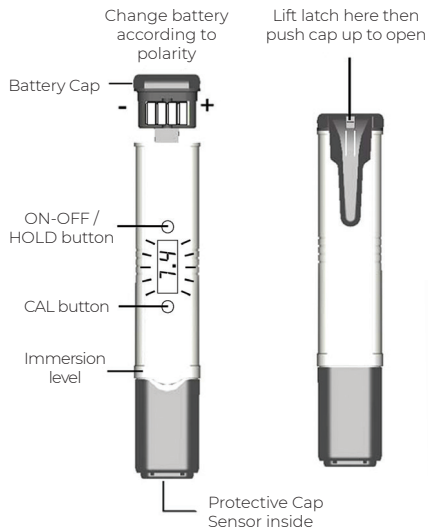
**CALIBRATION MODE** - It is recommended that you calibrate the unit daily to achieve consistent and accurate results using 7 pH solution only. With the power on, place the sensor into the 7 pH buffer solution, stir the sensor within the solution and tap gently to remove any air bubbles around the sensor (If the sensor is dry due to prolonged storage wait for the reading to stabilise). Press the CAL button and 'CAL' will be displayed for two seconds. The unit will automatically calibrate to the 7 pH solution and the display will continue to flash to show it has stored the reading.

**BATTERY REPLACEMENT** - Replace the batteries once the battery icon illuminates. Once removed replace with four LR44 batteries or equivalent, ensuring the polarity is correct. Re-calibrate the unit after replacing the batteries.

**CARE & MAINTENANCE** - This pH tester can accurately measure 365 tests for one year (based on one test per day) if the sensor is maintained. After this time the sensor will degrade, but regular cleaning and calibration of the unit will prolong its life past the expected amount of tests. If the readings are slow to respond, place the sensor into water or pH 7 solution for at least one hour before testing again.

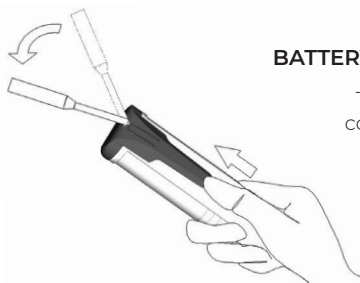
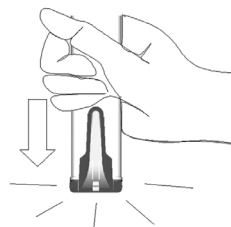
**STORAGE & CLEANING** - Ensure that the electrode glass bulb is kept in good condition by rinsing and replacing the storage cap after each use. Always rinse the pH electrode with de-ionized water or rinsing solution before next use, if this is not available water can be used. Do not touch the glass bulb or use on harsh material.

**EMC/RFI** - Instrument performance may be affected if operated within a high frequency radio field, such as near a mobile phone, or if subjected to an electrostatic shock.



## INSTALLING

First close the battery cover as this unit is supplied with the battery cover open to conserve the battery life. Close the battery cover by pressing the cap on a hard surface, you should hear a 'click' which indicates that the cover is shut.



## BATTERY REPLACEMENT

To open the battery cover use a small flat blade screwdriver on the latch whilst pushing the battery cover (as pictured).

**GUARANTEE** - This instrument carries a one-year guarantee against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ETI, be either repaired or replaced without charge. The product guarantee does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification. Full details of liability are available within ETI's Terms & Conditions of Sale at [etiltd.com/terms](http://etiltd.com/terms). In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.



Supplied by  
 Electronic Temperature Instruments Ltd  
 Worthing · West Sussex · BN14 8HQ  
 01903 202151 · [sales@etiltd.com](mailto:sales@etiltd.com) · [etiltd.com](http://etiltd.com)



813-513/14.11.18