

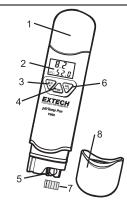
User Guide

pH Waterproof Meter Models PH50 & PH60

Description

Front Panel Controls

- Battery compartment cap
- LCD Display (pH & Temperature for PH60, pH only for PH50)
- HOLD /▲ button
- 4. PWR (On/Off) button
- Electrode
- 6. CAL button
- Electrode cap with sponge
- 8. Protective cap



Overview

pH Overview

pH is a unit of measure (ranging from 0 to 14pH) indicating the degree of acidity or alkalinity of a solution. pH tests are the most commonly performed measurements in water analysis and reports the hydrogen ion activity of a solution which is an indicator of acidity or alkalinity. Solutions with a pH less than 7 are considered acidic, solutions with a pH higher than 7 are known as bases, and solutions with a pH of near 7 are neutral.

Getting Started

- Before first use or after extended storage, soak the electrode (with its cap removed) in a pH 4 solution for at least 30 minutes.
- White KCL crystals may be present in the cap. These crystals will dissolve in the soak
 or they can be simply rinsed with tap water.
- Always calibrate close to the expected measurement value.
- A sponge is located in the electrode protective cap. Keep this sponge soaked with a pH 4 solution to preserve Electrode life during storage.
- Unless directed otherwise, a daily two point calibration is recommended to maintain accuracy and to verify the condition of the meter and electrode.

Support line (781) 890-7440

Technical support: Extension 200; E-mail: support@extech.com Repair & Returns: Extension 210; E-mail: repair@extech.com

Product specifications subject to change without notice

For the latest version of this User's Guide, Software updates, and other Up-to-the-minute product information, visit our website: www.extech.com

Operation

pH Measurements

- Remove the protective cap and the electrode cap
- 2. Insert the electrode into the sample.
- Press the PWR key to turn the meter on and slowly stir until the reading settles.The decimal point will blink while the meter is measuring.

pH Calibration (1, 2, or 3 points)

A two point calibration with a buffer of 7 plus 4 or 10 (whichever is nearest to the expected sample value) is always recommended. A one point calibration (choose the value closest to the expected sample value) is also valid. For best accuracy, always calibrate at the sample temperature.

- Place the electrode into a buffer solution (4, 7, or 10) and momentarily press the CAL key. Note: pH 7 should be calibrated first, then 4 and/or 10 pH.
- If meter successfully recognizes the solution "CAL" and the pH value will appear
 on the display in two seconds. Note: If the solution is more than 1pH off from the
 4, 7, or 10pH standard, the meter will assume an error and abort the calibration.
 "EN" will be displayed for one second and then the meter will return to normal
 operation.
- If the calibration buffer is another value other than 4, 7, or 10, such as 4.1, press
 the HLD/
 button to adjust the value to the correct reading. The adjustable
 range for 4pH is from 3.5 to 4.5. for 7pH is from 6.5 to 7.5. For 10pH is from 9.5 to
 10.5
- When calibration is complete, the meter automatically saves the value, displays "SA" and returns to normal operation mode after displaying "EN".
- 5. For a two or three point calibration, repeat steps 1-4.
- Note: Always turn the meter off and then on before calibrating to allow sufficient time to complete the calibrations during one power cycle.

Changing the Displayed Temperature Units (Model PH60 only)

With the meter OFF, press and hold the PWR and CAL buttons until oF or oC appears in the display. Press the HLD/ button to toggle between them. Select the preferred unit and then press CAL to save. "SA" will appear in the display for one second and then return to normal operation.

Data Hold

Momentarily press the HLD/ \blacktriangle button to freeze the current reading. The HOLD display icon will appear along with the held reading. Momentarily press the HLD/ \blacktriangle key to return to normal operation.

Auto Power Off Disable

The meter will shut off after 20 minutes to save battery life if no buttons are pressed. To disable this feature, with the meter off, press and hold the PWR and HLD/ \(\Delta \) buttons simultaneously until an "n" appears for 1 second on the display. Release the buttons.

Note: Turning the meter off will reactivate the Auto Power Off feature.

Battery Replacement

- Remove the two screws from the battery compartment cap
- Replace the four (4) LR44 batteries observing polarity.
- 3. Replace the battery compartment cap and secure with the screws

Specifications

Model	PH50	PH60
Display	Single LCD	Dual LCD
PH Range and Accuracy	2.0 to 12.0	0.0 to 14.0
PH resolution/accuracy	0.1pH / ± 0.3pH	0.1pH / ± 0.2pH
Temperature Range	_	32 to 122°F (0 to 50°C)
Temperature resolution/accuracy	_	0.5° / ± 1.8°F / 1°C
Automatic Temperature Compensation	_	Yes
Waterproof	Meets IP67	
Power	Four (4) LR44 button batteries	
Auto power off	After 20 minutes of inactivity	
Dimensions	6x1.5x0.9" (152x37x24mm); 2.3oz (65g)	

Optional Accessories

- Tripak buffers pouches, 6 each of 4, 7 & 10 pH plus two rinsing solutions (Part Number: PH103)
- Tripac buffer capsules, 10 each of 4, 7 and 10 pH (Part Number 650470)
- pH 4.01 buffer, pint, (Part Number PH4-P)
- pH 7.00 buffer, pint, (Part Number PH7-P)
- pH 10.00 buffer, pint, (Part Number PH10-P)

Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 ext. 210 for authorization or visit our website at www.extech.com (click on 'Contact Extech' and go to 'Service Department' to request an RA number). A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

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