



1. Press to turn on; hold for longer to turn off.
 2. When powered off, hold to enter SETTINGS.
 3. Once in settings, hold to return to MEASUREMENT mode.
 4. In MEASUREMENT mode, press to turn backlight on/off.
- Press to switch MEASUREMENT modes:
 AC-PHM5: pH → ORP
 AC-PHM7: pH → Cond → TDS → Sal
1. Hold to enter CALIBRATION mode.
 2. Press to finish calibrating or confirm settings.
 3. Press to unlock your screen when your reading automatically locks.

1 CALIBRATION

If unused for a month or longer, soak in 3M KCL for 30 minutes before use.*

*Make sure the sensor is fully submerged in the solution.

Press to turn the meter on.

2

Rinse the probe in distilled or deionized water and shake off excess water.

- White sediment found around the probe is normal before your first use and can be rinsed off the probe. Meter performance will not be affected.

3 1ST CALIBRATION POINT

Pour the calibration solution into the calibration vial up to the halfway point.

Hold to calibrate.

Press to exit.

- pH: 7.00 pH solution.
- Cond (AC-PHM7 only): 1413 μS/cm or 84 μS/cm solution.

4

Stir the probe in the calibration solution then let it stand still. When appears on the screen, press to complete calibration.

- Pressing before appears on your screen will cause "Er2" to appear. To fix this, wait for to appear and remain onscreen, then press to complete the calibration.

5 2ND CALIBRATION POINT

Perform your 2nd calibration point after the 1st calibration point has been completed. Do NOT turn off the meter in between this process.

pH: In 4.00 pH solution, repeat steps 2-4.

Cond (AC-PHM7 only): In 1413 μS/cm or 12.88 mS/cm solution, repeat steps 2-4.

6 3RD CALIBRATION POINT

Perform your 3rd calibration point after the 2nd calibration point has been completed. Do NOT turn off the meter in between this process.

pH (AC-PHM5 only): In 10.01 pH solution, repeat steps 2-4.

Cond (AC-PHM7 only): In 12.88 mS/cm solution, repeat steps 2-4.

- The 1st point of pH calibration must be 7.00 or 6.86 pH.
- The 1st point of conductivity calibration can be 84 μS, 1413 μS, or 12.88 mS. Start from low to high to avoid cross-contamination.

1 MEASUREMENT

Press to turn the meter on.

Rinse the probe in distilled or deionized water and shake off excess water.

2

Stir the probe in the sample solution then let it stand still. Take the reading after appears on the screen or if the reading has automatically locked (P4 will need to be turned on).

3

Hold to power off. Rinse the probe in distilled water. Place the cap atop the probe.

- Prior to storage, add several drops of 3M KCL into the probe cap to maintain the probe's sensitivity.

SETUP: When the meter is turned off, hold to enter SETTINGS. → Press to select P1-P2. → Press to confirm your selection. → Press to make any adjustments. → Press to confirm the changes. → Hold to return to the MEASUREMENT mode.

	AC-PHM5	AC-PHM7
P1	Select pH standard series (USA - NIST)	Select pH standard series (USA - NIST)
P2	Low reading alarm (0 - 14.00 pH)	Select automatic lock (Off - On)
P3	High reading alarm (0 - 14.00 pH)	Select backlight (Off - 1 - On)
P4	Select automatic lock (Off - On)	Select temperature coefficient (0.00 - 4.00%)
P5	Select backlight (Off - 1 - On)	Select TDS factor (0.40 - 1.00)
P6	Select temperature unit (°C - °F)	Select salinity unit (ppt - g/L)
P7	Restore to factory default (No - Yes)	Select temperature unit (°C - °F)
P8	N/A	Restore to factory default (No - Yes)

INSTRUCTION:
 The blue-colored text is the factory default value; pH measuring alarm: default minimum value 0.00 pH and maximum value 14.00 pH on alarm; Select backlight: "Off" is always off, "On" is always on, "1" means factory defaults to 1 minute; default value of TDS factor is 0.71; default value of temperature coefficient is 2.00%.

MODEL	RANGE	RESOLUTION	ACCURACY	CALIBRATION	CALIBRATION SOLUTION	ATC	FUNCTION
AC-PHM5	pH: -2.00 - 16.00 pH mV: ±1000 mV Temp: 32 - 122°F	0.01 pH 1mV 32.18°F	±0.01 pH ±0.2% FS ±32.9°F	1-3 points	1.68 / 4.00 / 7.00 / 10.01 / 12.45 pH	32 - 122°F	1-6. Refer to below 7. pH high/low reading alarm (red backlight displays)
AC-PHM7	pH: -2.00 - 16.00 pH Cond: 0.1 μS - 20.00 mS TDS: 0.1 ppm - 10.00 ppt Sal: 0 - 10.00 ppt, Temp: 32 - 122°F	0.01 pH 0.1/1 μS, 0.01 mS; 0.1/1 ppm, 0.01 ppt; 32.18°F	±0.01 pH ±1% FS ±32.9°F	1-3 points	1.68 / 4.00 / 7.00 / 10.01 / 12.45 pH 84/1413 μS / 12.88 mS	32 - 122°F	1. Indication of calibration point: 2. Measuring stability indication: 3. Automatic lock indication: HOLD 4. Self-diagnosis information: Er1, Er2 5. Low voltage alarm: flashing 6. Auto-Off in 8 minutes of no operation