

Setup Menu

How to Enter in Setup Menu

Instrument OFF



Long press CAL Power on

Instrument with 2 Buttons

Controls



Parameter Selection
(only model PHC-1)

COND / TDS

Reset factory settings

YES / NO

Instrument with 3 Buttons

Controls



TDS factor
0.40 ... 1.00
PHC-5 - PHM-5

Temperature Unit
°C - °F

Reference temp.
20 / 25 °C
PHC-5 - PHM-5 - PHM-6

Temp. coefficient
0.00 ... 4.00 %
PHC-5 - PHM-5 - PHM-6

Reset
Yes - No

MODELS



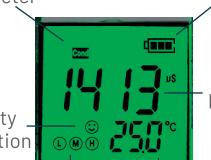
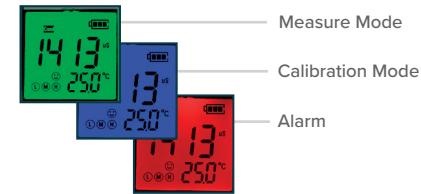
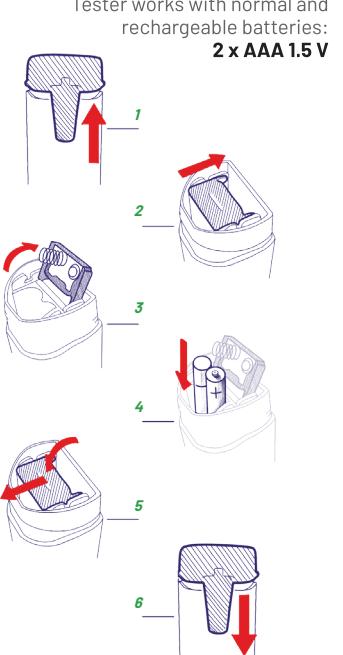
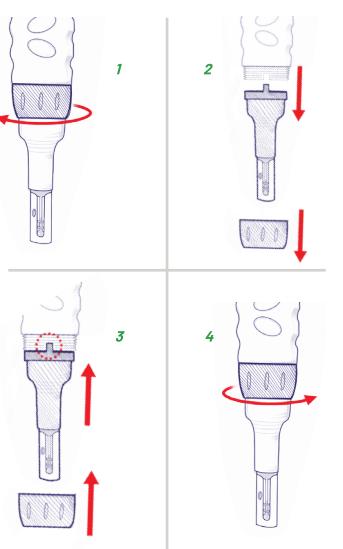
DATA SHEET

	PHH-1	PHC-1	PHO-4	PHH-5	PHH-7	PHC-5	POP-5	PHM-5	PHM-6
Parameters	pH - Temp	Cond - TDS	pH - ORP - Temp	pH - Temp	pH - Temp	Cond - TDS - Salt - Temp	ORP - Temp	pH - Cond - TDS - Salt - Temp	pH - ORP - Cond - TDS - Salt - Temp
pH measuring range	0 ... 14	-	-2 ... 16	-2 ... 16	-2 ... 16	-	-	-2...16	-2...16
Resolution	0.1	-	0.01	0.01	0.01	-	-	0.01	0.01
Relative accuracy	± 0.1	-	± 0.01	± 0.01	± 0.01	-	-	± 0,01	± 0,01
Points of calibration	1..2	-	1...3	1..3	1..3	-	-	1...3	1...3
Buffer auto recognition	3 USA Buffer	-	5 USA Buffer	5 USA buffer	5 USA buffer	-	-	5 USA buffer	5 USA buffer
Calibration points indication	YES	YES	YES	YES	YES	YES	YES	YES	YES
Stability measurement indication	YES	YES	YES	YES	YES	YES	YES	YES	YES
Electrode condition	-	-	YES	YES	YES	-	-	YES	YES
mV (pH) measuring range	-	-	-1000 mV...+1000 mV	-1000 mV...+1000 mV	-1000 mV...+1000 mV	-	-	-1000 mV...+1000 mV	-1000 mV...+1000 mV
Resolution	-	-	0.1 / 1 mV	0.1 / 1 mV	0.1 / 1 mV	-	-	0.1 / 1 mV	0.1 / 1 mV
mV (redox) measuring range	-	-	-1000 mV...+1000 mV	-	-	-	-1000 mV...+1000 mV	-	-1000 mV...+1000 mV
Resolution	-	-	0.1 / 1 mV	-	-	-	0.1 / 1 mV	-	0.1 / 1 mV
Calibration	-	-	1 point	-	-	-	1 point	-	1 point
COND measuring range	-	0,01 µS ... 199,9 mS	-	-	-	0,01 uS...199,99 mS	-	0,01 uS...199,99 mS	0,01 uS...199,99 mS
Resolution	-	Automatic scale	-	-	-	Automatic scale	-	Automatic scale	Automatic scale
Relative accuracy	-	±2 % full scale	-	-	-	±2 % full scale	-	±2 % full scale	±2 % full scale
Calibration points COND	-	1...2	-	-	-	1...3	-	1...3	1...3
Calibration standard recognition	-	1413 µS / 12.88 mS	-	-	-	84 µS/ 1413 µS/ 12.88 mS	-	84 µS/ 1413 µS/ 12.88 mS	84 µS/ 1413 µS/ 12.88 mS
Indication of calibration points	-	YES	-	-	-	YES	-	YES	YES
TC Temperature coefficient	-	0.00 ... 4.00% / °C	-	-	-	0.00 ... 4.00% / °C	-	0.00 ... 4.00% / °C	0.00 ... 4.00% / °C
TR Reference temperature	-	25°C	-	-	-	20 / 25°C	-	20 / 25°C	20 / 25°C
TDS measuring range	-	0.01 ppm ... 199,9 ppt	-	-	-	0,01 ppm ... 199,9 ppt	-	0,01 ppm ... 199,9 ppt	0,01 ppm ... 199,9 ppt
TDS Factor	-	0.40 ... 1.00	-	-	-	0.40 ... 1.00	-	0.40 ... 1.00	0.40 ... 1.00
Relative accuracy	-	±2 % reading value	-	-	-	±2 % reading value	-	±2 % reading value	±2 % reading value
Salinity measuring range	-	-	-	-	-	0,01 mg/l ... 100,0 g/l	-	0,01 mg/l ... 100,0 g/l	0,01 mg/l ... 100,0 g/l
Temperature measuring range °C	-	-	0 ... 60 °C	-	0 ... 60 °C	0 ... 60 °C			
Resolution/Accuracy	-	-	0.1 / ± 0.2 °C	-	0.1 / ± 0.2 °C	0.1 / ± 0.2 °C			
Auto off	YES, after 8 min. not used	-	YES, after 8 min. not used	YES, after 8 min. not used					
Display	LCD	LCD	3 color backlit LCD	3 color backlit LCD	3 color backlit LCD	3 color backlit LCD	-	3 color backlit LCD	3 color backlit LCD
IP Protection	IP 67	-	IP 67	IP 67					
Battery life	> 300 Hrs	> 300 Hrs	> 200 Hrs	> 200 Hrs	> 200 Hrs	> 200 Hrs	-	> 200 Hrs	> 200 Hrs
Replaceable sensor	X	X	●	●	●	●	-	●	●

Waterproof pH Testers

QUICK GUIDE



pH Calibration	COND Calibration	ORP Calibration	DISPLAY	BATTERIES												
2 point calibration <p>Instrument ON</p> <ol style="list-style-type: none"> Press CAL Rinse with deionized water and dry Put the probe in buffer solution pH 7.00 Wait for stability indication Press CAL to confirm <i>2nd point</i> Rinse with deionized water and dry Put the probe in buffer solution pH 4.01 Wait for stability indication Press CAL to confirm Press ESC <p>● Press ESC to exit from the calibration, at any time.</p> <p>● Store pH electrode in STORAGE solution</p> <p>● Do not store pH electrode in water</p> <p>● At the first use, replace the gel storage in the cap with the liquid storage solution.</p>	2 point calibration <p>Instrument ON</p> <ol style="list-style-type: none"> Press CAL Rinse with deionized water and dry Put the probe in reference solution 1413 μS Wait for stability indication Press CAL to confirm <i>2nd point</i> Press CAL Rinse with deionized water and dry Put the probe in reference solution 12.88 mS Wait for stability indication Press CAL to confirm <p>Temperature compensation: Conductivity measures are automatically compensated in temperature. It is possible to change the reference temperature in the setup Menu.</p>	Manual calibration on 1 point <p>Instrument ON</p> <ol style="list-style-type: none"> Press CAL Rinse with deionized water and dry Put the probe in reference solution Wait for stability indication Stable value starts blinking One way adjustment: Press MODE until you reach the right value. Maximum adjustment allowed is +75 mv or -75 mv from the starting point. Press CAL to confirm the chosen value. <p>● Store ORP electrode in STORAGE solution</p> <p>● In calibration, to low the value, continue to press Mode button. The value increase, but after reaching the high limit(+75mV from the s.p.) It jumps to -75 mV from the starting point.</p>	 <p>Parameter Battery level Measure Stability indication Points of calibration Temperature</p> <p>DISPLAY Colours</p>  <p>REMOVE THE PROTECTION</p> <p>The electrode is stored in a gummy protection cap. Remove it before using the tester, and place it back at the end, filled with new storage solution.</p>	<p>Tester works with normal and rechargeable batteries: 2 x AAA 1.5 V</p> 												
			<p>ERRORS Description</p> <table border="1"> <tr> <td>Error</td> <td>Contents</td> </tr> <tr> <td>Er 1</td> <td>Wrong pH buffer solution, or the recognition of calibration solution out of range.</td> </tr> <tr> <td>Er 2</td> <td>Measure not stable. Wait for stability icon 😊</td> </tr> <tr> <td>Er 3</td> <td>During calibration, the measuring value is not stable for ≥3min.</td> </tr> <tr> <td>Er 4</td> <td>Electrode potential out of range <-60mV or >60mV</td> </tr> <tr> <td>Er 5</td> <td>Electrode slope out of range <85% or >110% 1. Check for air bubbles in glass bulb. 2. Check the buffer solution is pristine 3. Replace pH electrode with a new one.</td> </tr> </table>	Error	Contents	Er 1	Wrong pH buffer solution, or the recognition of calibration solution out of range.	Er 2	Measure not stable. Wait for stability icon 😊	Er 3	During calibration, the measuring value is not stable for ≥3min.	Er 4	Electrode potential out of range <-60mV or >60mV	Er 5	Electrode slope out of range <85% or >110% 1. Check for air bubbles in glass bulb. 2. Check the buffer solution is pristine 3. Replace pH electrode with a new one.	<p>SENSOR Replacement</p> <p>*Only for 4-5-6-7 series</p> 
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