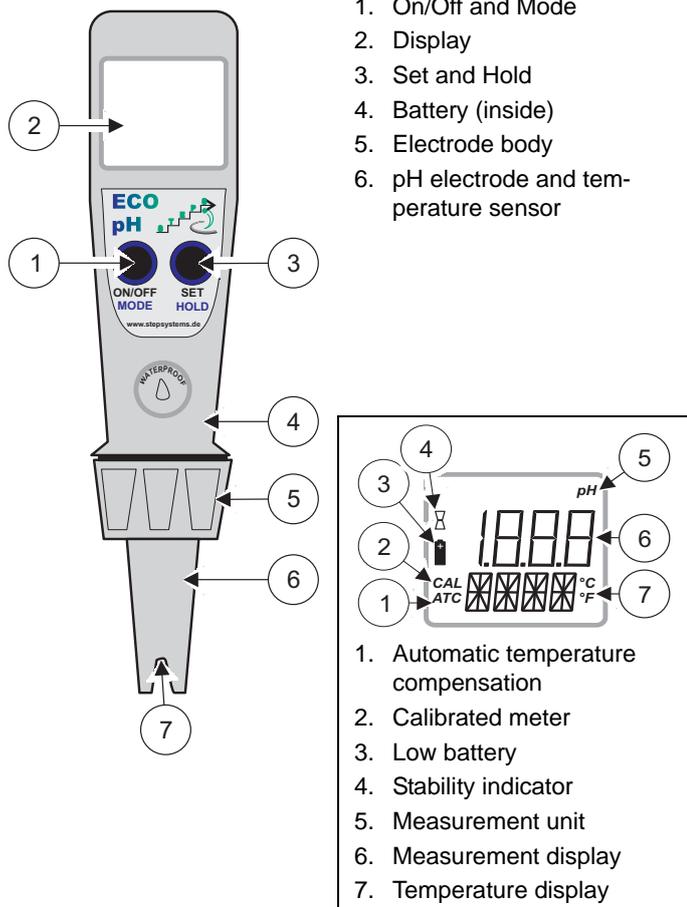# ECO pH-Tester Manual

Front panel and display

1. On/Off and Mode
2. Display
3. Set and Hold
4. Battery (inside)
5. Electrode body
6. pH electrode and temperature sensor

1. Automatic temperature compensation
2. Calibrated meter
3. Low battery
4. Stability indicator
5. Measurement unit
6. Measurement display
7. Temperature display

Technical data

Range	0 to 14 pH, -5 to 60°C (23 to 140°F)
Resolution	0,01 pH, 0,1°C (0,1°F)
Accuracy	± 0,01 pH, ± 0,5°C (± 1°F)
Calibration	automatic 1- or 2-point calibration
Temperature compensation	automatic
Battery	4 x 1,5V button type, approx. 100 hours of use
Auto-off	after 8 minutes of non-use
Envirment	-5 to 50°C (23 to 122°F), RH 100%
Housing	waterproof
Dimension	175,5 x 39 x 23 mm
Weight	100 g
Warranty	1 year, 3 month electrode

Operation

Turn on and measurement

1. Press and hold **ON/OFF** until the display lights up.
2. Remove the protective cap of the electrode. The tester is now ready for operation.
3. Put the electrode into the sample. The stability indicator shows a stable measurement result.
4. Freeze the display with **SET/HOLD**. Press any button to return to measurement mode.
5. To turn off the tester press **ON/OFF** until the display shows **OFF**.
6. Clean the electrode after each measurement session with distilled water. Put a few drops calibration solution pH 4,01 in the protective cap and put on the cap.

*Do **never** store the electrode in destilled water.*

Calibration

Calibrate the ECO pH-Tester, if
- the electrode has been replaced
- min. once per week
- to ensure accurate results
- after measuring agressive chemicals

1. Press and hold **ON/OFF**, until the display shows **CAL**.
2. Release **ON/OFF**, the display shows **pH 7.01 USE**.
3. Put the electrode in the calibration solution pH 7.01. The CAL-symbol flashes, until the display shows **pH 4.01 USE**.
4. To finish the **1-point calibration**, press **ON/OFF**, the tester shows **OK 1** and returns to the measurement mode.
5. For a **2-point-calibration**, clean the electrode and put it in the calibration solution pH 4.01. The CAL-symbol flashes.
6. The display shows **OK 2**, when the calibration is successful. The tester returns to the measurement mode.

Maintenance

Change the electrode

1. Unscrew the retaining ring and put it off.
2. Pull off the old electrode body.
3. Put on the new electrode body.
4. Screw the retaining ring on.
5. Calibrate the electrode.

Change the battery

1. When the display shows the battery icon, change the batteries.
2. Unscrew the retaining ring and put it off.
3. Pull off the electrode body.
4. Pull out the battery compartment gently.
5. Change the four 1,5V button batteries, pay attention to the polarity.
6. Press the battery compartment carefully back into the ECO pH-Tester.
7. Put on the electrode body.
8. Screw the retaining ring on.
9. Calibrate the electrode.

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