

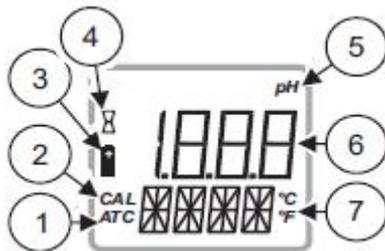
## PH-TM2 waterproof Pocket meter for pH and Temperature

With exchangeable Electrode

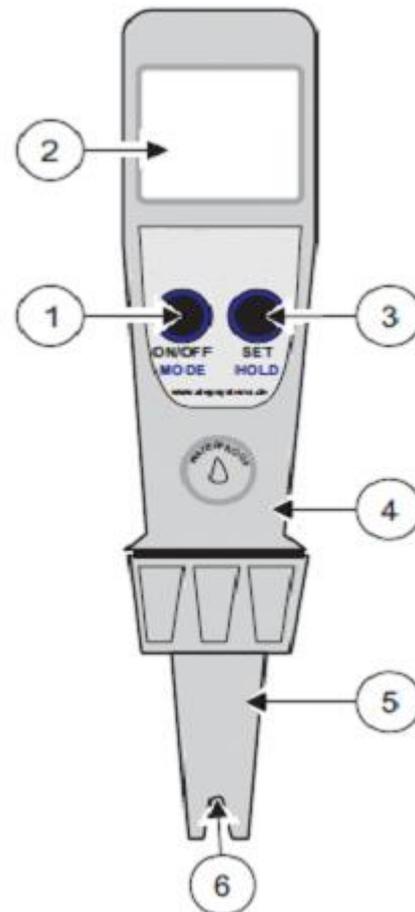
### Components

1. On/Off and Mode Button
2. Display
3. Set und Hold Button
4. Batteries (inside)
5. Exchangable Electrode element with protective cap
6. Sensors for pH and Temperature

### Display



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| <ol style="list-style-type: none"> <li>1. automatic Temp-compensation</li> <li>2. Calibration Mode</li> <li>3. Battery indicator</li> <li>4. Stability of Measurement indicator</li> <li>5. Measurement unit</li> <li>6. pH Measurement Value</li> <li>7. Temperature measurement Value</li> </ol> |
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### Use

#### Measurement

1. Press and hold ON/OFF button, until Display comes alive.
2. Remove protective cap. Instrument is now ready for use.
3. Hold electrode into the liquid to be measured. Stir gently. Wait until reading stabilizes (hourglass disappears).
4. By pressing SET/HOLD the displayed value is hold. To reactivate press any button.
5. Press ON/OFF button to switch instrument off.
6. After taking measurement(s), rinse electrode thoroughly with distilled water.
7. For storage, please keep the electrode wet. Best is to moisten the little sponge inside the protective cap with a few drops of pH 4,01 buffer. Finally put the protective cap back on.

*Never store the electrode in distilled water!*

## Calibration

Calibration of instrument is necessary when:

- after approx. 30 to 50 measurements
- after the electrode has been changed / replaced
- at least once per month
- results with highest accuracy are desired
- after taking measurements in solutions of aggressive Chemicals

Calibration step by step:

1. Press and hold ON/OFF button, until Display shows CAL
2. Release ON/OFF button, Display shows pH 7.01 USE
3. hold the electrode into pH 7,01 buffer solution, until Display shows OK 1
4. For a 1-Point Calibration, press ON/OFF button to return to normal measurement mode  
For a 2-Point Calibration, rinse electrode in distilled water, and hold electrode in 4,01 pH buffer solution (Display shows pH 4.01 USE)
5. In a 2-Point Calibration process, display will show after approx. 12 Seconds OK2, if calibration was successful. Instrument returns automatically to standard measurement mode.

## Maintenance

Change of Electrode

1. Remove old electrode element
2. Assemble instrument with replacement (new) electrode element
3. Calibrate Instrument

Change of Batteries

1. Batteries need to be changed, if low battery symbol appears in display
2. Remove electrode element
3. Pull gently battery holder out
4. Replace all four 1,5V batteries
5. Place battery holder back into instrument and screw electrode element back on
6. Calibrate Instrument

## Technische Daten

Measurement 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)
Kalibrierung	automatic 1- or 2-Point Calibration
Temperature Compensation	automatic
Battery	4 x 1,5V, ca. 100 hours lifespan
Auto-Off	after 8 minutes of inactivity
Use	0 to 50°C (32 to 122°F), rel. humidity 100%
Dimensions and Weight	175,5 x 39 x 23 mm / approx. 100 g