WARRANTY

This instrument is warranted from all defects in materials and manufacturing for a period of **2 years** from the date of purchase.
Electrodes and probes are warranted for a period of 6 months. If during this period, the repair or replacement of parts is required, where the damage is not due to negligence or erroneous operation by the user, please return the parts to either dealer or our office and the repair will be effected free of charge.

Note: We reserve the right to modify the design, construction and appearance of our products without advance notice.

SPECIFICATIONS

Range	0.0 to 14.0 pH
Resolution	0.1 pH
Accuracy (@25°C)	±0.2 pH
pH electrode	A1230B
Calibration	Manual, 2-point, through trimmers
Environment	0 to 50 ºC, 95% RH max
Power supply	External, 12 Vdc
Dimensions	120 x 134 x 54 mm
Weight	approx. 250 g

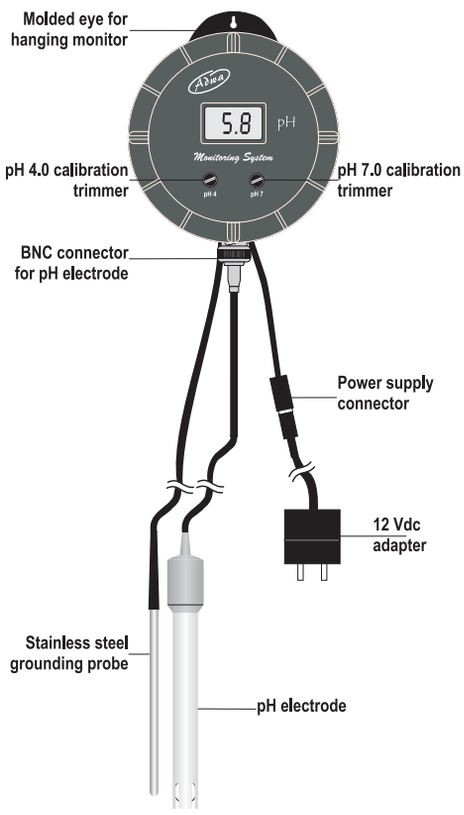
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ACCESSORIES

A1230B	pH electrode with plastic body, double junction BNC connector and 2 m cable
A70004P	pH 4.01 solution, 20 ml sachet (25 pcs)
A70007P	pH 7.01 solution, 20 ml sachet (25 pcs)
A70010P	pH 10.01 solution, 20 ml sachet (25 pcs)
A7071S	Rinse solution, 30 ml bottle

USER MANUAL

ECO209 - pH Monitor



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GENERAL OPERATIONS

- The unit is supplied complete with **A1230B** pH electrode. Connect the electrode to the BNC connector on the bottom of the meter. Do not be alarmed if white crystals appear around the electrode protective cap. They dissolve by simply rinsing with water.
- If the electrode is dry, soak the tip in electrode rinse solution for one hour to reactivate it.
- Connect the supplied 12 Vdc adapter to the power supply connector and to the mains.
- Make sure the unit has been calibrated for pH before using it.
- The meter is supplied with a differential input and a stainless steel probe to prevent potential grounding problems.
- For taking measurements remove the protective cap from the pH electrode and immerse the tips (4 cm) of both pH electrode and grounding probe into the solution to be measured, then shake briefly.
- The display will show the pH value. Wait a few seconds for the reading to stabilize and the meter will start continuous monitoring.
- To turn the unit off simply unplug the 12 Vdc adapter from the mains.

pH ELECTRODE MAINTENANCE

- The electrode should always be kept moist and wet. If the electrode dries out, soak it in rinse solution for at least 1 hour.
- When not in use, rinse the electrode with water and store it with a few drops of pH7 or rinse solution in the protective cap.
- Always replace the protective cap after use.

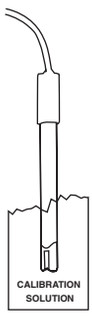
CALIBRATION PROCEDURE

A new pH meter must always be calibrated before use.

The **ECO209** pH-Monitor can be calibrated manually over 2 points, at pH 7 and pH 4 (or pH 10).

If you are going to measure acidic samples (pH value between 0 and 7), it is suggested to calibrate with pH 7.01 and pH 4.01 buffer solutions.

If your samples are alkaline (pH value between 7 and 14), use pH7.01 and pH 10.01 buffer solutions.



- Immerse the tips of electrode and grounding probe in a new pH 7 calibration solution and allow the reading to stabilize.
- Using a small screwdriver adjust the pH7 calibration trimmer to read pH "7.0".
- Rinse the electrode in the rinse solution.
- Immerse the tips of electrode and grounding probe in a new pH 4 (or pH 10) solution and wait for the reading to stabilize.
- Adjust the pH4 calibration trimmer to read pH "4.0" (or pH "10.0").
- The pH calibration procedure is now complete and the meter is ready for use.