

ERROR MESSAGES

Ec: use a fresh buffer solution

Eb: batteries should be replaced.

ACCESSORIES

pH 4.01 buffer solution

20 ml sachet

pH 7.01 buffer solution

20 ml sachet

Please read carefully this manual before starting operations.

SPECIFICATIONS AD100

Range	-2.0 to 16.0 pH
Resolution	0.1 pH
Accuracy	± 0.1 pH
Temp. compensation	Automatic
Environment	0° to 50°C 95% relative humidity
Battery Life/Type	250 Hrs./4×1.5V
Dimensions	173 × 41 × 22 mm

WARNING

The enclosed product is intended for use by persons know-ledgeable in safe laboratory practices. Failure can result from surface damage, improper pressure or temperature, or use with improper chemicals.

USER MANUAL

AD100 pH Tester

- *Microprocessor-based pH tester*
- *Automatic temperature compensation*
- *Splash-proof keypad*
- *Automatic shut-off*

CONDITIONING

Remove the cap. If white crystals have formed, they will be dissolved during conditioning.

To condition, soak the tip of the tester in pH 7 buffer solution for ten minutes.

CALIBRATION

Calibrate your tester once a week or at any time you suspect a problem with the readings. AD100 pH tester can be calibrated at 4, 7 and 10 pH values.

ALWAYS CALIBRATE AT pH 7 FIRST.

1. Put the tip of the tester in pH 7 buffer solution press the "ON/OFF" button.

2. Press "CAL" button: "7.0" and "pH" will start flashing. When the sign "pH" stops flashing, the reading has stabilized. Then press "READ" button: "4.0" and "pH" will start flashing.

3. Rinse the tip of the tester with deionized water.

4. Put the tip of the tester in pH 4 buffer (for acidic measurements) or in pH 10 buffer (for alkaline measurements, pH 10 buffer is not included in delivery): "4.0" (or "10.0") and "pH" will start flashing.

5. When the sign "pH" stops flashing, the reading has stabilized. Press "READ". The calibration is completed.

ALWAYS USE A FRESH BUFFER SOLUTION FOR CALIBRATION.

OPERATION

1. Remove the protective cap from the bottom of the tester.

2. Press "ON/OFF" button to turn the tester on.

3. Place the tip of the tester into the sample to be measured.

4. Stir the sample and record the reading when the number has stabilized. The tester will automatically compensate temperature variations.

5. Press "ON/OFF" button to turn the tester off.

MAINTENANCE

The Sensor should be kept moist at all the times. This can be done by storing the tester with a few drops of pH 4 buffer solution in the protective cap. Rinse the electrode after each measurement with tap water.

WARNING: DO NOT USE DEIONIZED OR DISTILLED WATER FOR STORAGE PURPOSES.

BATTERY REPLACEMENT

When the batteries need to be replaced, the "Eb" error message will appear on the display and the tester will turn off automatically to prevent the unreliable measurement result.

Open the battery compartment at the top of the tester. Place the batteries noting the polarity listed in the battery compartment.