

## Soil pH151 Instructions

### ***Before first use***

Precipitation of the sensor electrolyte may cause white crystals to form around the cap. This is normal and does not affect the performance of the sensor.

### ***Conditioning***

Condition the sensor before use. Remove the transparent cap and fill with water (tap water) to a height of 20mm (marked on the cap supplied). Place the cap on the flat surface and insert the sensor to soak for one hour. This will activate the sensor and dissolve any crystals present. Rinse the cap with water afterwards.

### ***Calibrating the pH Tester***

- Select pH 7.01 calibration solution for general testing, select pH 4.01 for acidic and pH 10.01 for alkali solutions.
- Press the ON/OFF button to power on.
- Immerse sensor in 20mm of buffer solution and stir gently.
- Wait for displayed value to stabilise.
- Press the CAL button to enter the calibration sequence.
- CAL will flash momentarily and then show a flashing default reading.
- To complete calibration, press HOLD/ENT button to confirm. To abort calibration, press CAL button to escape.

### ***pH Testing***

- Take two level 2ml scoops of soil and place in a sample container. Add 10ml of deionised water.
- Replace cap on container and shake gently for 1 minute.
- Transfer the 10ml sample into the transparent cap of the pH tester.

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## **Maintenance**

Rinse the sensor in tap water after use.

## **Useful Notes**

To maintain sensor accuracy, use tester regularly or calibrate at regular intervals. For long-term storage, fill the cap with 20mm of storage solution and replace cap. This will keep the sensor conditioned and ready for its next use.

## **Changing Batteries**

To remove batteries, lift up front battery cover and hold in position before lifting the two sides of the pocket clip. Remove old batteries and replace with new ones.

## **Error Messages**

**bAt** - batteries are weak and need replacing

**Err** - wrong buffer value (out of range) and/or sensor is failing, use fresh buffer

**Or/Ur** - over or under range signal. Sensor may be contaminated/damaged/not fully immersed

## **Warranty**

The pH151 tester is supplied with a warranty against manufacturing defects for a period of one year from date of purchase.

*A Soil pH Meter Calibration Kit is available upon request. This kit includes:*

- 100ml 4.01 Calibration Buffer Solution
- 100ml 7.01 Calibration Buffer Solution
- 100ml 10.01 Calibration Buffer Solution
- 100ml Storage Solution
- 100ml Deionised Water

Contact Martin Lishman Ltd for details.

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