INSTRUCTION GUIDE
Lovibond® Pocket Testers

EC1- Part Code: IN720030-EC1

pH1 - Part Code: IN720010-pH1



Better water quality decisions begin with accurate and reliable measurements.

Different applications require different parameters. pH tells you how acidic or alkaline a sample is, while conductivity, TDS and salinity help you understand the dissolved ionic content of the water.

With the Lovibond® Pocket Tester range, you can select the instrument that matches your measurement requirements — or use both for a more complete picture of your water quality.

Lovibond® pH1
pH + Temperature
For reliable pH measurements with automatic temperature compensation.

Lovibond® EC1
Conductivity + TDS + Salinity + Temperature
Four important water quality measurements combined in one compact instrument.

Preparation

- Remove the protective cap from the meter and rinse the electrode with clean water, then wipe dry
- Press CAL button to turn the meter on. Don't touch or wipe the surface of the inner black sensor of the conductivity cell

Calibration

- Check that the COND icon shows in the LCD display
- Dip the electrode into standard solution 1413 µS/cm and stir gently, then wait for the display to stabilise
- Press and hold CAL button to enter calibration mode and hold until the display shows CAL and then flashes 1413
- When the display stops flashing and indicates SA then End calibration is finished and the meter returns to measurement mode
- Note: Calibration by 12.88mS/cm standard solution should be used if you are measuring high conductivity values
- If the meter does not read 0 µS/cm while in air, then calibrate the probe in air (dry) to obtain a true zero reading

Measurement

- After calibration, rinse the conductivity cell with clean water and wipe it dry
- Dip the electrode into the sample and stir gently until a stable reading is obtained
- Press MODE button to select the desired measurement mode. The unit will display the last unit of measurement in use before it was turned off. The unit scrolls in a standard sequence, right display is TDS, middle display is SALT, and left display is COND
- The unit will auto range to µS/cm or mS/cm or ppm or ppt
- If the display reads "-----" it is outside the measuring range
- Press and hold MODE button to switch between °C or °F
- When measuring the TDS of samples with a high OH alkalinity (e.g., boiler water), ensure that the pH of the water sample is below 8.3. To do so, you must neutralise the sample before measurement by adding 2 drops of PA1 or Alkalinity Neutralising Solution. If the solution turns pink/red, add drops of 20% Acetic Acid or further drops of Alkalinity Neutralising Solution until the sample turns back to colourless

Factory Re-Set Procedure

- Turn power ON
- Press and hold button **H/M** and **MODE** simultaneously, then turn power off

Preparation

- Remove the protective cap and unscrew the inner cap from the meter and rinse the electrode with clean water then wipe dry
- Press CAL button to turn the meter on. Always replace protective caps after usage. Ensure inner cap has pH 4.0 buffer inside for electrode storage

Single point Calibration

- Check that the PH icon shows in the LCD display
- Dip the electrode into pH 7 buffer and stir gently then wait for the display to stabilise
- Press and hold CAL button until the display shows **CAL** to enter calibration mode. The display will flash 7.00
- When the display stops flashing and indicates **SA** followed by **END**, the calibration is finished and the meter will return to measurement mode
- Note: If the icon SA does not appear then the calibration has failed

Two or Three point Calibration

- To perform a two point calibration, first perform a single point calibration with pH 7 buffer using the procedure above. When the meter has returned to the measurement mode, rinse the electrode in clean water and wipe dry
- Then dip the electrode into pH 4 buffer or pH 10 buffer and stir gently then wait for the display to stabilise.
- Press and hold button until the display shows **CAL** to enter calibration mode. The display will flash 4.00 or 10.00 depending on the buffer used
- When the display CAL stops flashing and indicates % followed by **SA** then **END**, the calibration is finished and the meter returns to measurement mode
- To perform a three point calibration, first perform a single point calibration with pH 7 buffer, followed by calibration with pH 4 buffer and finally with pH 10 buffer using the procedures detailed above
- After calibrating to pH4 or pH10, the display will indicate a % value to indicate the condition of the electrode based on the calibration slope. If the %value is below 70% or above 130%, the electrode must be replaced. A slope of 100% is ideal
- Note: If the icon **SA** does not appear then the calibration has failed

Measurement

- After calibration, rinse the electrode with clean water and wipe it dry
- Dip the electrode into the sample and stir gently until a stable reading is obtained. After reading rinse in clean water and replace both caps

For more information/ support, kindly contact us

Tintometer India Pvt. Ltd.
Door No. 7-2-C-14
Sanath Nagar IE | Hyderabad-500018, India
Tel: 1800 102 3891
indiaoffice@lovibond.in
www.lovibond.in
Tel: 1800 102 3891
indiaoffice@lovibond.in
www.lovibond.in

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