



HORIBA

HORIBA, the pioneer in user-friendly analysis equipment, has now made it even easier to measure conductivity

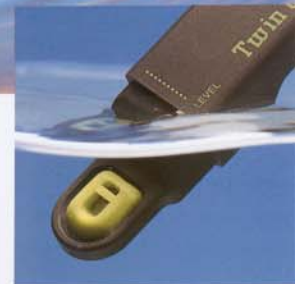


A pocket-size conductivity meter packed with advanced features. This single device can accurately measure minute samples in its unique built-in sampling chamber or large samples by immersion.

The dual-function conductivity meter B-173 is in the popular CARDY format, and has been made even smaller for portability and convenience. Thanks to the autoranging function, the measurement range of two instruments is now combined into one. The B-173 is packed with advanced features such as auto-calibration and automatic temperature conversion. HORIBA, a leader in analytical instruments, has revolutionized conductivity measurement.



Flat measurement



Immersed measurement

COMPACT CONDUCTIVITY METER

Twin Cond



measurement in rivers and lakes. It features autoranging and a measurement range from 1 $\mu\text{S}/\text{cm}$ to 19.9 mS/cm . It also has advanced functions such as one-touch auto-calibration, automatic temperature conversion (compensation temperature: 25 $^{\circ}\text{C}$), manual and automatic hold functions, and a salinity conversion function (from 0 to 1.1%).

The sensor

The cartridge-type sensor can be easily replaced if necessary.



CAL/MODE button

Press the Cal/Mode Button to switch between calibration mode, salinity mode, and conductivity mode.

HOLD button

When pressed during measurement, the current value will be held. If the Power On button is pressed simultaneously, the value will be held automatically after stabilization.

Power button

Turns power on and off. If the power is not turned off within 15 minutes after last use, it will automatically turn itself off.

Conductivity/Salinity Display

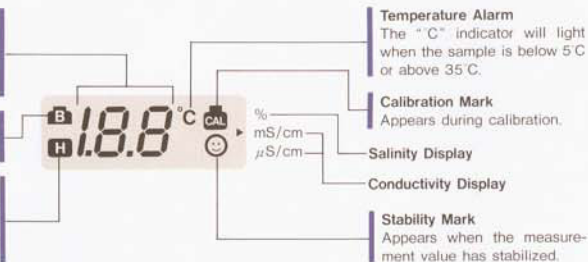
When the conductivity value is above 20 mS/cm or the salinity is above 1.1%, the display will flash.

Battery Alarm

Alerts you when the battery is low.

Hold Mark

Appears to indicate the measurement value is being held. During Autohold mode, the mark will flash.



Temperature Alarm

The "C" indicator will light when the sample is below 5 $^{\circ}\text{C}$ or above 35 $^{\circ}\text{C}$.

Calibration Mark

Appears during calibration.

Salinity Display

Conductivity Display

Stability Mark

Appears when the measurement value has stabilized.

SPECIFICATIONS

Model name: B-173

Principle: AC bipolar method

Measurement modes: Conductivity/sodium chloride (NaCl) salinity conversion

Display method: Digital LCD

Conductivity measurement range: 0 – 19.9 mS/cm

Measurement ranges:

- ① 0 – 199 $\mu\text{S}/\text{cm}$ 1 $\mu\text{S}/\text{cm}$ step
- ② 0.20 – 1.99 mS/cm 0.01 mS/cm step
- ③ 2.0 – 19.9 mS/cm 0.1 mS/cm step

Out of range display:

- ④ Flashes when over 20 – 199 mS/cm 1 mS/cm step (reference value)

Range changeover: ① – ④ automatic range changeover

Accuracy: $\pm 2\%$ full scale ± 1 digit (over 10 mS/cm : $\pm 3\%$ full scale ± 1 digit)

Salinity conversion display range: 0 – 1.1%

Display range:

- ① 0.00 – 99.9% 0.01% step
- ② 1.0 – 9.9% 0.1% step
- ③ 10% – 15% 1% step

Out of range display:

Flashes when over 1.1% (reference value)

Repeatability: $\pm 1\%$ full scale

Measurement temperature range: 5 $^{\circ}\text{C}$ – 35 $^{\circ}\text{C}$

Temperature compensation:

Automatic, 2%/ $^{\circ}\text{C}$ (fixed)
Compensation temperature 25 $^{\circ}\text{C}$

Weight: 46 g

Dimensions: 150 \times 27 \times 16 mm

Power supply: 3V \times 2, two CR-2032 lithium batteries

Material: ABS resin

Calibration: 1.41 mS/cm , 1 point

Standard Accessories:

- 2 bottles of standard solution (1.41 mS/cm)
- 1 bottle of deionized water
- 2 CR-2032 lithium batteries
- 1 pipet
- 1 storage pouch
- 1 instruction manual

Twin Cond B-173
Standard Accessories



The following accessories are available:

- Sensor (No.0413)
- Set of solutions (No.Y023):
4 bottles of standard solution (1.41 mS/cm)
4 bottles of deionized water

Acid rain Water quality control EC measurement Salt concentration measurement Dampening water for printing



Before measuring rain acidity, we recommend that you first confirm contamination of the rain by measuring conductivity, before measuring pH.

The measurement of conductivity is indispensable to controlling the water quality of rivers, lakes, underground water, waste water, etc.

Earth conductivity (EC) measurement when analyzing soil can now be done easily at the site.

The perfect way to check sea water desalination systems used on small ships and cruisers.

Ideal for the maintenance and control of dilution density of dampening water.

For more information, please contact us:

[ExpotechUSA](#)
[10700 Rockley Road](#)
[Houston, Texas 77099](#)
[USA](#)

[281-496-0900 \[voice\]](#)

[281-496-0400 \[fax\]](#)

E-mail: sales@expotechusa.com

Website: www.ExpotechUSA.com