

Portable pH-meter mod. HI 99161

portable pH meter for food

The HI99161 portable pH meter is supplied complete with the FC2023 pH electrode, with HI12963 PVDF body, with built-in temperature sensor for measurements with automatic temperature compensation. The HI99161 is a portable pH meter that also allows you to measure temperature. Suitable for food use, it has been specifically designed to measure the pH of food. The secret is in the electrode. The FC2023 pH electrode has a PVDF body, robust, easy to clean and **suitable for direct contact with food**. The conical tip is ideal for measuring semi-solid products such as cheeses. FC2023 has an open junction which prevents typical occlusion problems when measuring viscous liquids such as milk or condiments. **IDEAL FOR:**



- Semi-solid food products
- Milk, cheese and dairy products
- Yogurt, creams and emulsions
- Bread and pasta
- Fruits and vegetables

FC2023 pH electrode specially designed for measurements in food **Body in PVDF** Polyvinylidene fluoride (PVDF) is a type of plastic that is resistant to most chemicals and solvents. It has a high mechanical resistance, to abrasion, to ultraviolet and nuclear radiation. PVDF is suitable for direct contact with food **Open junction** The open junction ensures quick readings (adequate flow between sample and reference). It is easy to clean and prevents the formation of occlusions (typical of the ceramic joint). **Conical tip** The conical tip allows penetration into solid, semisolid and emulsion samples for direct measurement of pH in food products, including meat, cheese, yogurt and milk. **Built-in temperature sensor**

- The internal temperature sensor is positioned in the tip, close to the measuring electrode.
- Automatic temperature compensation.

Superior quality electrodes Certified probes

- each electrode is subjected to a double check and must pass strict quality criteria, certified by the attached certificate. The user receives only perfect electrodes (5 notches of the "Probe Condition" indicator) - Integrated temperature sensor Pre-amplified electrodes - Maximum signal stability Sensor-Check™ system - A PCB integrated in each electrode allows the instrument to activate the system for evaluating the efficiency of the probe

Probe Condition The Sensor Check™ system allows you to view the condition of the pH electrode: 5 marks indicate an electrode in excellent condition, while 1 flashing mark indicates the need to replace the electrode. The indicator activates after a 2-point calibration and can be disabled from the Setup menu.

Complete equipment All instruments are supplied in a carrying case, complete with calibration solutions, cleaning solutions, beakers, batteries, instruction manual and quality certificates for the instrument and probe.

HI99161 is supplied with FC2023 pH / temperature probe, pH 4.01 standard solution in sachet (20 mL), pH 7.01 standard solution in sachet (20 mL), electrode cleaning solution in sachet (2 x 20 mL), batteries, instruction manual and hard case.

Large Display The instruments are equipped with a multilevel display that simultaneously displays all parameters. For all pH meters it is possible to view the pH reading expressed in mV by pressing the HOLD button. This function can be very useful for technical personnel to evaluate electrode performance during calibration.

Display of pH expressed in mV: useful for the diagnosis of the probe

- Automatic temperature compensation
- Automatic one or two point calibration
- BEPS - Alerts the user when the battery is low and may affect the measurement
- Compact, robust and watertight
- HOLD key to freeze the measurement on the display

Related products

- pH Buffer Solutions
- Preservative Filling Solutions

Technical data

PH scale:	from -2.00 to 16.00 pH (from 0.00 to 12.00 with FC2023 electrode)
PH resolution	0.01 pH
PH accuracy:	± 0.02 pH
PH calibration:	automatic one to two point with two sets of standard solutions (pH 4.01 / 7.01 / 10.01 or pH 4.01 / 6.86 / 9.18)
PH Temperature Compensation:	automatic -5.0 to 105.0 ° C
CAL Check pH:	probe condition indicator
MV scale:	± 825 mV (pH expressed in mV)
MV resolution:	1 mV
MV accuracy:	± 1 mV
Temperature scale:	from -5.0 to 105.0 ° C (0 to 80 ° C with FC2143 electrode)
Resolution Temperature:	0.1 ° C
Temperature Accuracy:	± 0.5 ° C (up to 60 ° C); ± 1.0 ° C (over)
Temperature Compensation:	automatic from -5.0 to 105.0°C
PH electrode:	FC2023 pre-amplified pH probe with internal temperature sensor, Quick DIN connector and 1m cable (included)
Automatic shutdown:	user selectable
Battery Type / Duration:	1.5V (3) AAA / approximately 1400 hours of continuous use
IP protection:	IP67
Terms of use:	0 to 50 ° C (32 to 122 ° F); RH max 100%
Dimensions:	154 x 63 x 30 mm
Weight:	196 g

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