

sensION™+ EC71
GLP Benchtop Conductivity Meter

Electrochemistry



Complete Simplicity
Hach sensION+, an all-in-one system with guided menu navigation makes general electrochemistry testing fast and simple. Each system is designed to be used in a wide variety of applications and comes complete with everything you need to start testing.

Features and Benefits

- **sensION™+ EC71** is a high performance instrument that includes all the necessary accessories to measure electrical conductivity.
- Equipped with stirrer, calibration flasks, and RS 232 C connectivity for external PC keyboard or barcode reader.
- Data Logger for 400 measurements, calibration data and cell record.
- Data can be shown on display, sent to printer or PC through the RS 232 C.
- Measures salinity (NaCl) and total dissolved solids (TDS) in addition to electrical conductivity and resistivity.

Recommended pH Electrodes

Conductivity cell

- With 8 contact telephone connector.
- Includes temperature sensor Pt 1000.

LZW5070.97.0002, 50 70, Universal. For general aqueous samples. Includes 3 platinum electrodes, 2 pole cell, C ≈ 0.7 cm⁻¹. EC 0.2-200.000 µS/cm, Temp. -30°C (-22°F) to 85°C (185°F).



50 70



Be Right™

Specifications

	Measured Parameters <small>(resolution depending on scale)</small>	Input Accuracy <small>(±1 digit)</small>	Reproducibility <small>(±1 digit)</small>
Conductivity	0.001* µS to 1000* mS/cm	≤ 0.5%	± 0.1%
Resistivity	0 Ohm to 500 MOhm	≤ 0.5%	± 0.1%
Salinity	5.85 mg/L to 311.1 g/L NaCl	≤ 0.5%	± 0.1%
T.D.S.	0 mg/L to 500 g/L	≤ 0.5%	± 0.1%
Temp.	-20.0 to 150.0°C (-4.0 to 302.0°F)	≤ 0.2°C (0.4°F)	± 0.1°C (0.1°F)

(*measuring with 5070 cell the Conductivity range is 0.2 µS/cm to 200 mS/cm)

Automatic Temperature Compensation

CT (temperature coefficient) Linear, 0.00 to 9.99%/°C. Non-linear for natural waters (UNE EN 27888).

TR (reference temperature) 20°C (68°F), 25°C (77°F) or values between 0 to 99°C (23 °F to 210 °F).

Conductivity Calibration

Standards: 147 µS/cm, 1413 µS/cm, 12.88 mS/cm and 111.8 mS/cm (25°C)(77°F). Demal, 1409 µS/cm, 12.85 mS/cm and 111.31 mS/cm (25°C). NaCl 0.05 % (1014.9 µS/cm at 25°C)(77°F)

With 1, 2 or 3 standards selectable inside the range.

Special calibration at any conductivity, resistivity, salinity or TDS value.

Manual introduction of cell constant.

Programmable calibration validity from 0 to 99 days.

TDS Conversion Factor

Values between 0 to 4.44. Default 0.64.

Temperature Readjustment

Correction of the temp. probe deviation (A.T.C.) at 25°C (77°F) and 85°C (185°F).

Data Logger

Storage capacity up to 400 measurements.

Languages

English, German, Spanish, French, Italian and Portuguese.

Display

Graphic, backlit liquid crystal, 128 x 64 dots.

Connectable Sensors

Conductivity cell with Pt 1000 probe or NTC 10 KOhm., telephone connector.

Connectable Peripherals

Magnetic stirrer.

Printer or PC.

External PC keyboard or barcode reader.

Directives Low Voltage and EMC

According to 2004/95/EC. According to 2004/108/EC.

Power Supply

External power supply 100-240 V, 0.4 A, 47-63 Hz with plug adapters.

Materials

Enclosure, ABS and PC. Keypad, PET with protective treatment.

Physical Parameters

Weight: 1100 g. Size: 350 x 200 x 110 mm.

How To Order

LPV3110.97.0002 SensION+ EC71 conductivity meter with accessories.

LPV3170.97.0002 Kit: SensION+ EC71, conductivity meter, accessories and cell **5070**

Included Accessories

- Magnetic stirrer
- Sensor holder
- Solutions: Conductivity standards
147 µS/cm, 1413 µS/cm and 12.88 mS/cm
- Calibration flasks with magnetic stirring bar
- User manual

Other Accessories:

LZW8201 Thermal printer of 40 columns, interface RS.

LZW8200 Impact printer of 40 columns, interface RS.

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When it comes to the things that touch our lives... Keep it pure.

Make it simple.

Be right.

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