

Experience Science

with portable pH and conductivity meters



At a glance

Besides the simultaneous display of measured value and temperature, various helpful icons inform you immediately about the condition of your electrode and whether a measurement is in progress or whether the reading is already stable.



Made easy

"Read" starts a measurement, "Cal" a calibration. Automatic endpoint recognition and calibration with automatic buffer recognition reduces possible user errors to a minimum.



Robust and useful

An electrode clip, a wrist strap and a laminated Quick Guide are included with every portable meter. A low-maintenance plastic electrode is included in the kit version. The field kit version also comes with a handy carry bag.



Flexible

With the connection of a redox electrode the pH meter can be used for redox measurements. The latest calibration data and up to 30 measurements can be saved and accessed with the press of a button.



Education Line

Teaching and learning with METTLER TOLEDO

Do my water and soil samples meet the requirements to support life, be it human, plant or animal? At which pH value does milk become sour? Many such questions arise in education. With the METTLER TOLEDO Education Line you can find answers and perhaps even develop a passion for science.

The robust splash-proof systems have been specifically tailored for experiments in the field as well as training courses – to make teaching and learning in science simply a pleasure.

Specifications

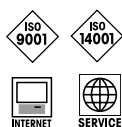
	EL2 pH	EL3 conductivity
Measurement range and limits of error	0.00 ... 14.00 pH \pm 0.01 pH -1999 ... 1999 mV \pm 1 mV 0.0 °C ... 100.0 °C \pm 0.5 °C	0.1 μ S/cm ... 199.9 mS/cm \pm 0.5 % 0.0 °C ... 100.0 °C \pm 0.3 °C
Calibration	Max. 2-point 3 predefined buffer groups	1-point 3 predefined standards
Memory	30 measurements Current calibration	30 measurements Current calibration
Temperature compensation	ATC & MTC	ATC Linear: 0.00 %/°C ... 10.00 %/°C Reference temperature: 20 & 25 °C
IP rating	IP54	IP54
Input	BNC, Cinch/RCA (NTC 30 kOhm)	Mini-DIN
Power requirements	4 x AAA batteries	4 x AAA batteries
Size and weight	169 x 82 x 36 mm / 0.18 kg (without batteries)	169 x 82 x 36 mm / 0.18 kg (without batteries)
Materials	Housing: ABS/ PC reinforced Window: PMMA Keypad: Membrane Display: Liquid crystal	Housing: ABS/ PC reinforced Window: PMMA Keypad: Membrane Display: Liquid crystal



Order numbers and standard equipment

Kit	Description	Order No.
EL2-Basic	Portable pH meter incl. electrode clip, wrist strap, operating instructions, quick guide, 4 x batteries	51302920
EL2-Kit	As for EL2-Basic, plus LE407 pH electrode, IP54 connection covers, 2 x pH 4.01 and 2 x pH 7.00 buffer sachets	51302921
EL2-Fieldkit	As for EL2-Kit, plus carry bag incl. 4 sample bottles	51302922
EL3-Basic	Portable conductivity meter incl. electrode clip, wrist strap, operating instructions, quick guide, 4 x batteries	51302923
EL3-Kit	As for EL3-Basic, plus LE703 conductivity electrode, IP54 connection covers, 2 x 1413 μ S/cm and 2 x 12.88 mS/cm standard sachets	51302924
EL3-Fieldkit	As for EL3-Kit, plus carry bag incl. 4 sample bottles	51302925

Electrode	Description	Order No.
LE407	Robust pH electrode with gel electrolyte, applicable for basic applications, uncomplex samples e.g. water; low maintenance	51340330
LE409	pH glass electrode with liquid electrolyte for easy and fast measurements in the laboratory, aqueous samples e.g. acids, bases etc.; electrolyte refillable	51340331
LE420	Glass electrode with movable glass sleeve for more difficult or "dirty" samples such as wastewater, emulsions (e.g. milk), oily samples; electrolyte refillable	51340332
LE438	3-in-1 plastic electrode with integrated temperature sensor for field measurements, samples with fluctuating temperatures; low maintenance	51340242
LE501	Glass redox electrode for the laboratory	51340338
LE510	Robust plastic redox electrode for field measurements	51340339
LE703	Robust conductivity electrode for medium to high conductivities (10 μ S/cm ... 500 mS/cm)	51340335
NTC 30 kOhm	Separate temperature sensor	51300164



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