

Electrodes and applications

Electrode	Description	Order No.
LE407	Robust plastic pH electrode with gel electrolyte, suitable for simple applications and easy samples such as water; low-maintenance	51340330
LE409	Glass pH electrode with liquid electrolyte for simple and rapid measurements in the laboratory, aqueous samples such as acids, bases etc.; refillable electrolyte	51340331
LE420	Glass electrode with ground-joint diaphragm for demanding, "dirty" samples such as waste water, emulsions (e.g. milk), oily samples; refillable electrolyte	51340332
LE438	3-in-1 plastic electrode with integrated temperature sensor for field use, samples with fluctuating temperatures; low-maintenance	51340242
LE501	Glass ORP electrode for lab use	51340338
LE510	Robust plastic ORP electrodes for field use, e.g. swimming pools	51340339
LE703	Robust conductivity electrodes for medium to high conductivities (10 µS/cm ... 500 mS/cm)	51340335
NTC 30 kΩhm	Separate temperature sensor	51300164

Our InLab sensors can, of course, also be connected to our "Five" series instruments. More detailed information about our InLab portfolio is available at www.mt.com/electrodes.

Accessories

FiveGo™ accessories	Order No.
FiveGo™ electrode clip	51302960
FiveGo™ clip cover	51302961
FiveGo™ battery cover	51302962
FiveGo™ wrist strap	51302964
IP54 connection covers	51302965
FiveGo™ carry bag	51302966
FiveGo™ sealing kit	51302967
"Quick guide" for FiveGo pH (laminated)	51710494
"Quick guide" for FiveGo conductivity (laminated)	51710495

Calibration and cleaning solutions

Calibration solutions	Order No. 30 x 20 mL bags	6 x 250 mL bottles
pH 4.01	51302069	51340058
pH 7.00	51302047	51340060
pH 9.21	51302070	51300194
pH 10.01	51302079	51340231
1413 µS/cm	51302049	51300259
12.88 mS/cm	51302050	51300260

Cleaning solutions	Order No.
Pepsin/HCL solutions for cleaning diaphragms with proteinaceous contamination. Reaction time: approx. 1 hour. (250 mL)	51340068
Thiourea solution for cleaning diaphragms contaminated by silver sulfide. Leave to act until decolorization. (250 mL)	51340070
Reactivation solution for regenerating glass pH electrodes, reaction time: 1 min. (25 mL)	51340073

Technical specifications

	FG2 FiveGo™ pH	FG3 FiveGo™ conductivity
Measuring range	0.00...14.00 pH -1999...1999 mV 0 °C...100 °C (32 °F...212 °F)	0.0 µS/cm...199.9 mS/cm 0.1 mg/l...199.9 g/l (TDS) 0.00...19.99 psu (salinity) 0 °C...100 °C (32 °F...212 °F)
Resolution	0.01 pH 1 mV 0.1 °C	Automatic range 0.00...19.99 psu 0.1 °C
Error limits	± 0.01 pH ± 1 mV ± 0.5 °C	± 0.5 % of the measured value ± 0.3 °C
Calibration	2 points 3 predefined buffer group	1 point 3 predefined standards
Memory	30 measurements Current calibration	30 measurements Current calibration
Power supply	4 x AAA > 500 operating hours	4 x AAA > 250 operating hours
Size/weight	169 x 82 x 36 mm / 0.18 kg (without batteries)	169 x 82 x 36 mm / 0.18 kg (without batteries)
Display	Liquid crystal	Liquid crystal
Input	BNC, impedance > 10e + 12 Ω Cinch, NTC 30 kΩ	Mini-Din
Temperature-compensation	ATC & MTC	Linear: 0.00 %/°C...10.00 %/°C Reference temperature: 20 & 25 °C
IP protection	IP54	IP54
Housing	ABS/PC reinforced	ABS/PC reinforced



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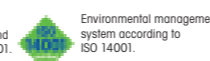
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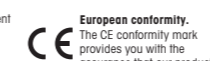
www.mt.com/pH



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Lab Meters



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FiveGo™ conductivity

pH
mV / ORP
Conductivity
TDS
Salinity

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Suitable for a wide variety of applications

Agriculture

The pH value of arable land must be monitored regularly to protect people and the environment from potential dangers and to create ideal conditions for growing agricultural products.

Industry

The pH and conductivity of cooling and cleaning water as well as the manufactured products themselves must be tested during the manufacturing process – to guarantee a high level of quality in the finished products, to keep manufacturing costs down and to protect manufacturing equipment from corrosion and other damage.

Foodstuffs

Yogurt, cheese, fish, meat, sauces ...the number of samples is virtually endless, but all have one thing in common: The pH value must be kept at the optimum level so that quality and freshness of the products is guaranteed.

Beverages

pH value must be monitored during various processing stages involved in the production of beverages to ensure that the final product has the desired flavor.

Water

Whether in a lake or a sewage plant – compliance to certain pH and conductivity values in water is vital for the sustainability of all life, be it human, plant or animal.

5 x 5 reasons for FiveGo™

5 x outstanding price/performance ratio

- METTLER TOLEDO quality for reliable measurements
- Compact design – also ideal for users with smaller hands; easy replacement of batteries
- IP54 protection against dust and water
- Over 50 years of sensor know-how are also included in entry-level instruments
- Electrode clip, wrist strap and "Quick guide" are included as standard with every instrument; electrode and calibration sachets are included in the field kit version together with a carrying case including 4 sample bottles

5 x self-explanatory buttons for the simplest, intuitive operation

- Simple start and finish of measurements and calibrations
- Fast changeover between pH and mV parameters, or between conductivity, TDS and salinity
- Intuitive adjustment of settings
- Saving and accessing of measurements and calibration data at the push of a button
- Separate on/off switch

5 x useful information on a large, well organized display

- Simultaneous display of measurement, temperature and endpoint recording
- Electrode icon: provides information on the condition of the electrode
- Calibration/measurement icon: indicates that the instrument is calibrating/measuring
- Setup icon: settings can be modified
- Battery icon: provides information about the condition of the battery



5 x useful accessories

- Electrode clip can be attached to the left or right-hand side of the instrument
- Wrist strap for additional security during transport
- "Quick guide" – laminated, in case of spills
- A variety of electrodes for various applications, calibration solutions and cleaning solutions
- Handy carry bag with space for instrument, electrode, buffer bags, 4 sample bottles, operating manual, "Quick guide" and spare batteries

5 x superb functionalities

- Data storage for 30 measurements
- Automatic or manual termination of a measurement or calibration
- Automatic or manual temperature compensation
- Automatic calibration with predefined pH buffer groups or predefined conductivity standards
- Automatic buffer recognition during pH calibration

Ordering codes and scope of supply

Instrument	Description	Order No.
FG2 Basic	pH instrument incl. electrode clip, wrist strap, operating manual, "Quick guide", 4 x batteries	51302900
FG2 Kit	Instrument and accessories as with FG2 Basic, also with LE438 pH electrode, IP54 connection caps, 2 x pH 4.01 and 2 x pH 7.00 buffer sachets	51302901
FG2 Field Kit	Instrument and accessories as for FG2 Kit, also with carry bag incl. 4 sample bottles	51302902
FG3 Basic	Conductivity instrument incl. electrode clip, wrist strap, operating manual, "Quick guide", 4 x batteries	51302903
FG3 Kit	Instrument and accessories as with FG3 Basic, also with LE703 conductivity electrode, IP54 connection caps, 2 x 1413 µS/cm and 2 x 12.88 mS/cm standard sachets	51302904
FG3 Field Kit	Instrument and accessories as for FG3 Kit, also with carry bag incl. 4 sample bottles	51302905