FiveGo™

FiveGo™ Portable Instruments

pH

mV / ORP

Conductivity

TDS

Salinity

DO

Economic & Reliable

The Introduction to the World of Mobile pH

METTLER TOLEDO

5 x 5 Reasons for FiveGo™
Mobile pH, Conductivity & DO Solutions

Agriculture

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

Water

No matter whether it's 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.

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 they 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.

5 x useful informa-tion 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 cali-brating/measuring
- Setup icon: settings can be modified
- Battery icon: provides information about the condition of the battery

5 x self-explanatory buttons for the sim-plest operation

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

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 con-ductivity standards
- Automatic buffer recognition during pH calibration

Technical Specifications

	FiveGo pH FG2	FiveGo Conductivity FG3	FiveGo DO FG4
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)	0.0…199.9% and 200…400% 0.0…45.0 mg/L 0.0…45.0 ppm 0 °C…50 °C 375…825 mm Hg 500…1100 mbar 500…1100 hPa 0.0…50.0 ppt
Resolution	0.01 pH 1 mV 0.1 °C	Automatic range / 0.00…19.99 psu / 0.1 °C	0.1% and 1% 0.1 mg/L 0.1 ppm 0.1 °C 1 mm Hg 1 mbar 1 hPa 0.1 ppt
Error limits	± 0.01 pH / ± 1 mV / ± 0.5 °C	± 0.5 % of the measured value / ± 0.3 °C	± 1% / ± 1% / ± 1% ± 0.3 °C
Calibration	2 points 4 predefined buffer groups	1 point 3 predefined standards	2 points 100% and 0%
Input	BNC, Impedance > 10e+12 Ω Cinch, NTC 30 kΩ	Mini-DIN	BNC, Cinch, NTC 30 kΩ
Temperature-compensation	ATC & MTC	Linear: 0.00%/°C…10.00%/°C Reference temperature: 20 & 25 °C	ATC & MTC
Memory	30 measurements / Current calibration		
IP protection	IP54		
Display	Liquid crystal		
Housing	ABS/PC reinforced		
Power supply	4 x AAA / > 500 operating hours		
Size/weight	169 x 82 x 36 mm / 0.18 kg		

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 60 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
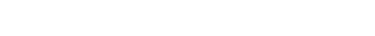
5 x useful accessories

- 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

Ordering Codes & Scope of Supply

Instrument	Description	Order No.
FG2-Basic	pH instrument incl. electrode clip, wrist strap, operating manual, "Quick Guide", 4 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-Food Kit	Instrument and accessories as with FG2 Basic, also with LE427 puncture pH electrode, IP54 connection caps, 2 x pH 4.01 and 2 x pH 7.00 buffer sachets	51302906
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 batteries	51302903
FG3-Kit	Instrument and accessories as with FG3 Basic, also with LE703 conductivity probe, 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
FG4-Basic	DO instrument incl. electrode clip, wrist strap, operating manual, "Quick Guide", 4 batteries	51302955
FG4-Kit	Instrument and accessories as with FG4 Basic, also with LE621 dissolved oxygen sensor and IP54 connection caps	51302956
FG4-Field Kit	Instrument and accessories as for FG4 Kit, also with carry bag incl. 4 sample bottles	51302957

Electrodes & Applications

Type	Description	Plug/Connection		Order No.
LE407	Robust plastic pH electrode with gel electrolyte, suitable for simple applications and easy samples such as water; low-maintenance	BNC		51340330
LE408	Robust plastic pH electrode with liquid electrolyte, suitable for simple applications; refillable electrolyte	BNC		51340347
LE409	Glass pH electrode with liquid electrolyte for simple and rapid measurements in the laboratory, aqueous samples such as acids, bases etc.; refillable electrolyte	BNC		51340331
LE420	Glass electrode with movable PTFE-sleeve junction for demanding, "dirty" samples such as waste water, emulsions (e.g. milk), oily samples; refillable electrolyte	BNC		51340332
LE427	The spear tip design makes it ideal for solid samples such as meat, fruit, cheese, soil and many more; low-maintenance	BNC		51340333
LE427-S7*		S7		51340334*
LE438	3-in-1 plastic electrode with integrated temperature sensor for field use, samples with fluctuating temperatures; low-maintenance	BNC/Cinch		51340242
LE703	Robust conductivity probe for medium to high conductivities (10 µS/cm…200 mS/cm)	Mini-DIN		51340335
LE740	Robust conductivity probe from low to medium conductivities (0.01 µS/cm…500 µS/cm)	Mini-DIN		51340336
LE611	Galvanic dissolved oxygen sensor, robust and easy, with 1.0 m cable	BNC		51340401
LE612	Galvanic dissolved oxygen sensor, robust and easy, with 5.0 m cable	BNC		51340402
LE621	Galvanic dissolved oxygen sensor, with integrated temperature sensor, robust and easy, with 1.0 m cable	BNC/Cinch		51340403
LE622	Galvanic dissolved oxygen sensor, with integrated temperature sensor, robust and easy, with 5.0 m cable	BNC/Cinch		51340404
LE501	Glass ORP electrode for lab use	BNC		51340338
LE510	Robust plastic ORP electrode for field use, e.g. swimming pools	BNC		51340339
NTC 30kOhm	Separate temperature sensor	Cinch		51300164

* No cable is included, a selection of cables is available for connection to various instruments, e.g. Red S7-BNC, 1.0 m (Order no. 59902392) for METTLER TOLEDO, Hanna etc. More cable information is available at **www.mt.com/electrode-guide**.

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

Accessories for FiveGo	Order No.	Accessories for FiveGo	Order No.
Electrode clip	51302960	IP54 connection covers	51302965
Clip cover	51302961	Carry bag	51302966
Battery cover	51302962	Sealing kit	51302967
Wrist strap	51302964		

Calibration & Cleaning Solutions

Calibration solutions	Order No. 30 x 20 mL sachets	Order No. 6 x 250 mL bottles
pH 4.01	51302069	51350018
pH 7.00	51302047	51350020
pH 9.21	51302070	51350022
pH 10.01	51302079	51350024
1413 µS/cm	51302049	51350096
12.88 mS/cm	51302050	51350098
Zero oxygen tablets (20 pieces)		Order No. 51300140

Cleaning solutions	Order No. 1 x 250 mL bottle	Order No. 1 x 25 mL bottle
Pepsin/HCL solutions for cleaning diaphragms with proteinaceous contamination. Reaction time: approx. 1 hour.	51350100	
Thiourea solution for cleaning diaphragms contaminated by silver sulfide. Leave to act until decolorization.	51350102	
Reactivation solution for regenerating glass pH electrodes. Reaction time: 1 min.		51350104

METTLER TOLEDO – the Right Solution Right from the Start…

…also for the laboratory: FiveEasy Plus™ and FiveEasy™, the compact benchtop instrument for an easy introduction to the world of pH and conductivity.

METTLER TOLEDO gone Global…

the contact addresses of METTLER TOLEDO representatives globally can be found under the Internet address **www.mt.com/contacts**

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