

FiveEasy™



FiveEasy™ Bench Instruments

FiveEasy Plus™

FiveEasy™

pH

mV / ORP

Conductivity

TDS

Salinity

Simplify Your Lab
Quality Measurement for the Budget Minded

METTLER TOLEDO

Keeping pH Measurements Simple Intuitive Solutions for Your Lab

Time is an ever more valuable asset. Thanks to the Five's intuitive operation, sleek design and simple data export functions, you can maximize your time spent measuring instead of dealing with complex system and measurement setups.

Ideally suited for applications in the laboratory, the new FiveEasy and FiveEasy Plus benchtop instruments provide high quality pH/mV or conductivity measurements with the simple click of a button. Compact in design, and featuring various data export opportunities, the FiveEasy series instruments are the perfect companion to get reliable measurement data, all at a reasonable price.

Intuitive Operation – Measurement Made Easy



Featuring a large, well-structured display for easy viewing, the instruments' intuitive button arrangement and simple menu ensure measurements can be performed in just a few clicks.

Compact Design – Save Space



Thanks to its compact design, little bench space is needed for the Five series meters. The sensor holder can be easily removed and stored on the side of the meter after use.

Fast Connectivity – Simple and Secure Data Transfer



The FiveEasy Plus series meters allows data to be exported either directly to a printer or a PC for further processing using its RS232 or USB ports.



Food & Beverage



Environment



Agriculture



Industry



Academia

The New FiveEasy™ Series

pH and conductivity measurements made easy,
wherever your lab is situated.

A Look Inside

Specified for Your Measurements

The well-priced pH/mV and conductivity FiveEasy and FiveEasy Plus benchtop meters are the perfect choice for a wide range of laboratory applications.

Technical Specifications

| Specifications | | FiveEasy Plus™ pH FP20 | FiveEasy™ pH F20 | FiveEasy Plus™ Conductivity FP30 | FiveEasy™ Conductivity F30 |
|---|----------------------------|---|---|---------------------------------------|---------------------------------------|
| General Measurement | Measuring range | -2.00...16.00 pH | 0.00...14.00 pH | 0.01 µS/cm...500 mS/cm (conductivity) | 0.01 µS/cm...200 mS/cm (conductivity) |
| | | -2000...2000 mV | | 0.01 mg/L...300 g/L (TDS) | 0.01 mg/L...200 g/L (TDS) |
| | | 0.00...42 psu (salinity) | | - | - |
| | Resolution | -5...105 °C (23...221 °F) | 0...100 °C (32...212 °F) | -5...105 °C (23...221 °F) | 0...100 °C (32...212 °F) |
| | | 0.01/0.1 pH | 0.01 pH | Automatic range | |
| | | 1 mV | | 0.1 °C | |
| | Error limits | 0.1 °C | | 0.1 °C | |
| | | ± 0.01 pH | | ± 0.5% of the measured value | |
| | | ± 1 mV | | ± 0.5% of the measured value | |
| | Temperature compensation | ± 0.3 °C | ± 0.5 °C | ± 0.3 °C | ± 0.5 °C |
| Automatic and manual endpoint recording | ATC and MTC | | Linear: 0.00 %/°C...10.00 %/°C, reference temperature: 20 and 25 °C | | |
| Acoustic endpoint signal | Yes | Yes | Yes | Yes | |
| Visual endpoint signal | Yes | Yes | Yes | Yes | |
| Calibration | max. 5 point | max. 3 point | 1 point | 1 point | |
| | Linear/segmented | Linear | - | - | |
| | 4 predefined buffer groups | | 3 predefined standards, manual cell constant input | 3 predefined standards | |
| Data Storage | Memory size | 200 measurements, current calibration | Current calibration | 200 measurements, current calibration | Current calibration |
| Connectors | Sensor inputs | BNC, Cinch | BNC, Cinch | Mini-DIN | Mini-DIN |
| | RS232 interface | Yes | - | Yes | - |
| | USB interface | Yes | - | Yes | - |
| | Reference input | Yes | - | - | - |
| | Analog output | - | Yes | - | - |
| General | Power supply | Input: 100...240 V / 50...60 Hz Output: 12 V DC | | | |
| | Display | 4.3" segmented LCD | | | |
| | Housing | ABS | | | |
| | Size / Weight | 227 x 147 x 70 mm / 0.63 kg | | | |



Food & Beverage



Environment



Agriculture



Industry

Academia

Optimally designed for work on bench surfaces in a wide range of workplaces, including laboratories in academia.

A Complete Overview Solutions Suited for Your Needs

Different combinations of FiveEasy and FiveEasy Plus meters, sensors and accessories are available. These kits are ideally suited for specific applications and samples.




Kits Overview and Order Information

| | Meter | Kits | Kits description | Order Number | Ideally suited for |
|---------------------|---------------------------------------|---------------|--------------------------------|--------------|---|
| pH/mV, ORP | FiveEasy Plus FP20 pH/mV | FP20-Meter | meter only | 30266627 | Applications that require a specific sensor not included in a kit |
| | | FP20-Standard | Standard kit with LE438 sensor | 30266628 | Wide range of general aqueous samples |
| | | FP20-Bio | Kit with LE410 sensor | 30266629 | Fast results in aqueous samples such as acids, bases etc. |
| | | FP20-Micro | Kit with LE422 sensor | 30266940 | Small samples in vials and test tubes |
| | | FP20-TRIS | Kit with LE420 sensor | 30266941 | Demanding, 'dirty' samples such as emulsions, oily samples, waste water, TRIS, etc. |
| | FiveEasy F20 pH/mV | F20-Meter | Meter only | 30266658 | Applications that require a specific sensor not included in a kit |
| | | F20-Standard | Standard kit with LE438 sensor | 30266626 | Wide range of general aqueous samples |
| Conductivity | FiveEasy Plus FP30 Conductivity | FP30-Meter | Meter only | 30266944 | Applications that require a specific sensor not included in a kit |
| | | FP30-Standard | Standard kit with LE703 sensor | 30266945 | Aqueous samples with mid to high conductivity |
| | FiveEasy F30 Conductivity | F30-Meter | Meter only | 30266942 | Applications that require a specific sensor not included in a kit |
| | | F30-Standard | Standard kit with LE703 sensor | 30266943 | Aqueous samples with mid to high conductivity |

Accessories for FiveEasy Plus™ / FiveEasy™

| Description | Order Number |
|---|--------------|
| FiveEasy Plus™/ FiveEasy™ electrode arm (includes sensor holder and pole) | 30239139 |
| FiveEasy Plus™/ FiveEasy™ electrode arm extension for larger sample beakers | 30239140 |
| FiveEasy Plus™/ FiveEasy™ rubber cap (2 pieces for electrode arm opening on instrument) | 51302952 |
| FiveEasy Plus™/ FiveEasy™ side cover | 30239146 |

Sensors & Applications

| Type | Description | Plug/Connection | Order Number |
|---|--|--|--------------|
|  | LE438 3-in-1 plastic electrode with integrated temperature sensor for field use, samples with fluctuating temperatures; low-maintenance | BNC/Cinch  | 51340242 |
|  | 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 |
|  | LE410 3-in-1 glass pH electrode with integrated temperature sensor and with liquid electrolyte for rapid measurements in the laboratory; for aqueous samples such as acids, bases etc.; refillable electrolyte | BNC/Cinch  | 51340348 |
|  | 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 |
|  | LE422 Micro pH electrode with gel electrolyte, suitable for small samples in vials and test tubes; low-maintenance; 4.3 mm diameter | BNC  | 30089747 |
|  | LE427 The spear tip design makes it ideal for solid samples such as meat, fruit, cheese, soil and many more; low-maintenance | BNC  | 51340333 |
|  | | S7  | 51340334* |
|  | LE703 Robust conductivity probe for medium to high conductivities (10 $\mu\text{S}/\text{cm}$...200 mS/cm) | Mini-DIN  | 51340335 |
|  | LE740 Robust conductivity probe from low to medium conductivities (0.01 $\mu\text{S}/\text{cm}$...500 $\mu\text{S}/\text{cm}$) | Mini-DIN  | 51340336 |
|  | LE501 Glass ORP electrode with platinum pin for lab use | BNC  | 51340338 |
|  | LE510 Robust plastic ORP electrode with platinum pin 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.



For more information and documents on the new FiveEasy (Plus) meters, kits, and accessories, visit:

www.mt.com/fiveeasy

More Meters and Accessories



FiveGo™

Portable meters with IP67 protection and data memory to measure pH, conductivity or dissolved oxygen:

www.mt.com/FiveGo



Buffers and Solutions

Learn more about our portfolio of certified buffers and solutions:

www.mt.com/BuffersAndMore



SevenCompact™

Universal quality benchtop meters for reliable pH and conductivity measurements:

www.mt.com/SevenCompact

www.mt.com/pH

For more information

Mettler-Toledo GmbH, Analytical
CH-8603 Schwerzenbach, Switzerland
Tel. +41 22 567 53 22
Fax +41 22 567 53 23

Subject to technical changes
© 11/2015 Mettler-Toledo GmbH, 30279225
GlobalMarCom Switzerland / RT

