FiveEasy™

FiveEasy™ Bench Instruments

- FiveEasy Plus™
- FiveEasy™
- pH
- mV/ORP
- Conductivity
- TDS
- Salinity

Simplify Your Lab

Quality Measurement for the Budget-Minded

METTLER TOLEDO

Keep pH Measurements Simple
Intuitive Solutions for Your Lab

Time is an increasingly valuable asset. Thanks to the FiveEasy'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 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 capabilities, the FiveEasy series instruments are the perfect companion to get reliable measurement data, 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 is integrated into the housing so that the sensor 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 allow data to be exported either directly to a printer or a PC for further processing using its RS232 or USB port.

The FiveEasy™ Series
pH and conductivity measurements made easy, wherever your lab is located.

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	0.00 µS/cm…500.0 mS/cm (conductivity)	0.00 µS/cm…200.0 mS/cm (conductivity)
		–2,000…2,000 mV		0.00 mg/L…300.0 g/L (TDS)	0.00 mg/L…200.0 g/L (TDS)
				0.00…42.00 psu (salinity)	–
		–5.0…105.0 °C (23.0…221.0 °F)	0.0…100.0 °C (32.0…212.0 °F)	–5.0…105.0 °C (23.0…221.0 °F)	0.0…100 °C (32.0…212.0 °F)
	Resolution	0.01/0.1 pH	0.01 pH	Automatic range	
		1 mV		0.01 psu (salinity)	
		0.1 °C		0.1 °C	
	Accuracy (instrument)	±0.01 pH		±0.5% of the measured value	
		±1 mV			
		±0.3 °C	±0.5 °C	±0.3 °C	±0.5 °C
	Temperature Compensation	Automatic or manual		Linear correction factor: 0.00…10.00%/°C Reference temperature: 20 or 25 °C	
	Automatic and Manual Endpoint Recording	Yes	Yes	Yes	Yes
	Acoustic Endpoint Signal	Yes	Yes	Yes	Yes
	Visual Endpoint Signal	Yes	Yes	Yes	Yes
	Calibration	Max. 5 points	Max. 3 points	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 (NTC 30 kΩ)	BNC, Cinch (NTC 30 kΩ)	Mini-DIN (NTC 30 kΩ)	Mini-DIN (NTC 30 kΩ)
	RS232 Interface	Yes	–	Yes	–
	USB Interface	Yes	–	Yes	–
	Reference Input	Yes	–	–	–
	Analog Output	–	Yes	–	–
General	Power Supply	100…240 V/50…60 Hz, 12 VDC			
	Display	4.3" segmented LCD			
	Housing	ABS			
	Size/Weight	227 × 147 × 70 mm/0.63 kg			

Food & Beverage · Environment · Agriculture · Industry · Academia

Optimally designed for work on bench surfaces in a wide range of industries, including laboratories in academia, food and beverage, environment, and agriculture.

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 or samples.

Kits Overview and Order Information

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

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
pH	LE438	3-in-1 plastic electrode with integrated temperature sensor for field use, samples with fluctuating temperatures; Low-maintenance; Included in FP20 and F20-Standard Kits	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
	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; Included in FP20-Bio Kit	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; Included in FP20-Micro Kit	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
Conductivity	LE703	Robust conductivity probe for medium to high conductivities (10 µS/cm…200 mS/cm); Included in FP30 and F30-Standard Kits	Mini-DIN	51340335
	LE740	Robust conductivity probe from low to medium conductivities (0.01 µS/cm…500 µS/cm)	Mini-DIN	51340336
ORP	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
Temperature	NTC 30 kΩ	Separate temperature sensor	Cinch	51300164

For more information and documents on the 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/Buffers

SevenCompact™
Universal quality benchtop meters for reliable pH and conductivity measurements:
www.mt.com/SevenCompact

www.mt.com/pH
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Subject to technical changes
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