

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)	-	
			-5...105 °C (23...221 °F)	0...100 °C (32...212 °F)	-5...105 °C (23...221 °F)	0...100 °C (32...212 °F)
	Resolution	0.01/0.1 pH		0.01 pH	Automatic range	
		1 mV				
			0.1 °C		0.1 °C	
	Error limits	± 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	ATC and MTC			Linear: 0.00 %/°C...10.00 %/°C, reference temperature: 20 and 25 °C	
	Automatic and manual endpoint recording	Yes	Yes	Yes	Yes	Yes
	Acoustic endpoint signal	Yes	Yes	Yes	Yes	Yes
Visual endpoint signal	Yes	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				



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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
<b>pH/mV, ORP</b>	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
<b>Conductivity</b>	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 $\text{mS}/\text{cm}$ )	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](http://www.mt.com/electrode-guide).



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

[www.mt.com/fiveeasy](http://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](http://www.mt.com/FiveGo)



## Buffers and Solutions

Learn more about our portfolio of certified buffers and solutions:

[www.mt.com/BuffersAndMore](http://www.mt.com/BuffersAndMore)



## SevenCompact™

Universal quality benchtop meters for reliable pH and conductivity measurements:

[www.mt.com/SevenCompact](http://www.mt.com/SevenCompact)

[www.mt.com/pH](http://www.mt.com/pH)

For more information

### Mettler-Toledo AG, Analytical

CH-8603 Schwerzenbach, Switzerland  
Tel. +41 22 567 53 22  
Fax +41 22 567 53 23

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