

pH & Conductivity

The following pages contain a variety of instruments for the measurement of pH values as well as conductivity in microSiemens.

PHX 800 as a standard testing device for the pH values. TDS 3 as a standard testing device for microSiemens/cm².

For professional use one can select from the following range: PHT 810 pH meter instrument and PHT 830 pH meter, temperature compensated, with a variety of different electrodes, and the CT 830 conductivity measurement instrument, temperature compensated.



PHT 810
pH Meter




PHT 830
pH Meter



CT 830
Conductivity Meter



pH and
Conductivity
Standard Tester

The extended product range of  provides you with additional solutions for your major challenges in pH and conductivity measurement. For more information go to www.WTW.com.



pH and Conductivity Meter and Tester

Find your perfect meter:

Meter	Parameter	Measurement range	Probe type	Probe connection
PHT 810 pH Meter	pH	0 pH ... 14 pH	Various electrodes available	BNC
PHT 830 pH Meter	pH	0 pH ... 14 pH	pH-electrode with plastic shaft	Plug BK 6-pin
PHX 800 pH Tester	pH	0 pH ... 14 pH	Integrated electrode	-
CT 830 Conductivity Meter	Conductivity	0 ... 200 μ S, 0 ... 2,000 μ S, 0 ... 20 mS, 0 ... 500 mS	Graphite electrode	Plug BK 6-pin
TDS 3 Conductivity Tester	Conductivity	0 ... 1,999 μ S, 0 ... 19.99 mS	Integrated electrode	-



PHT 830 pH Meter with temperature compensation



- Configuration directly on device using 5 buttons and display
- Graphic LCD display with backlight
- Logging function
- Temperature compensated
- Software connection by IF 830, Winlog.pro, Winlog.med, Winlog.validation



Technical Data

Measurement range	pH:	0 pH ... 14 pH
	mV:	-1,999 mV ... 1,999 mV
	Temperature:	-10 °C ... +100 °C
Resolution	pH:	0.01 pH;
	mV:	1 mV
	Temperature:	0.1 °C
Accuracy	pH:	± 0.03 (± 2 pH-units)
	Temperature:	± 0.1 °C
Memory		4,000 values
Temperature		-10 °C ... +100 °C
Display		128 x 64 Pixel, backlight
Interface		USB "Interface HMG USB"
Battery		3 Batteries Type AA, IEC R6, LR6, 1.5 V
Ambient		-10 °C ... +55 °C (+14 °F ... +131 °F)
Relative humidity		< 95 % (non-condensing)
Connectors		Plug BK 6 pin (4 pin interface)
Housing		ABS plastic
Protection class		IP65
Dimension (L x W x D)		200 x 95 x 40 mm
Weight		290 g
Factory calibration certificate		pH 4.01 and pH 6.86

The set contains:

- PHT 830 pH Meter
- pH electrode, depending on Set type
- Buffer solution pH 4, pH 7, pH 9
- KCl solution
- Carrying case

Type	Description	Part No.
PHT 830 SET 1	pH Meter with plastic electrode	1340-5812
PHT 830 SET 2	pH Meter with glass electrode	1340-5813
PHT 830 SET 3	pH Meter with penetration electrode	1340-5814

CT 830 Conductivity Meter with auto range



- Configuration directly on device using 5 buttons and display
- Graphic LCD display with backlight
- Logging function
- Temperature compensated
- Software connection by IF 830, Winlog.pro, Winlog.med, Winlog.validation



Technical Data

Measurement range	0 ... 200 μ S 0 ... 2,000 μ S	TDS 0 ... 200 mg/l TDS 0 ... 2,000 mg/l
Resolution	0.1 μ S; 1 μ S	
Accuracy	Conductivity: Temperature:	\pm 0.5 % full scale \pm 0.1 $^{\circ}$ C
Memory	4,000 values	
Temperature	-10 $^{\circ}$ C ... +100 $^{\circ}$ C	
Display	128 x 64 Pixel, backlight	
Interface	USB "Interface HMG USB"	
Battery	3 Batteries Type AA, IEC R6, LR6, 1.5 V	
Ambient	-10 $^{\circ}$ C ... +55 $^{\circ}$ C (+14 $^{\circ}$ F ... +131 $^{\circ}$ F)	
Relative humidity	< 95% (non-condensing)	
Connectors	Plug BK 6 pin (4 pin interface)	
Housing	ABS plastic	
Protection class	IP65	
Dimension (L x W x D)	200 x 95 x 40 mm	
Weight	290 g	
Factory calibration certificate	5 μ S/cm and 1,413 μ S/cm	

The set contains:

- CT Conductivity Meter
- Conductivity electrode
- Calibration solution
1413 μ S/cm
- Carrying case

Type	Description	Part No.
CT830 SET	Conductivity Meter	1340-5835

Various electrodes for PHT 830

AT 830 pH K Binder

Temperature compensated
Housing material: plastic
Cable length: 150 cm
Diameter: 12 mm
Shaft length: 120 mm



AT 830 pH G Binder, laboratory electrode

Temperature compensated
Shaft housing material: glass
Cable length: 100 cm
Shaft diameter: 12 mm
Shaft length: 120 mm



AT 830 pH E Binder, penetration electrode

Temperature compensated for measurements in semi-solid food products and other materials.

Housing material: glass
Cable length: 100 cm
Shaft/electrode diameter: 15 mm/5 mm
Shaft/electrode length: 65 mm/12 mm



Technical Data	AT 830 pH K	AT 830 pH G	AT 830 pH E
pH measurement range	0 pH ... 14 pH	0 pH ... 14 pH	2 pH ... 13 pH
Temperature measurement range	0 °C ... +100 °C (+32 °F ... +212 °F)	0 °C ... +100 °C (+32 °F ... +212 °F)	+5 °C ... +80 °C (+41 °F ... +176 °F)
Electrolyte	Gel	Gel	Referid®

Type	Description	Part No.
AT 830 pH K Binder	Plastic electrode	1339-0661
AT 830 pH G Binder	Measurement electrode for laboratories	1339-0662
AT 830 pH E Binder	Penetration electrode	1339-0663

Electrode for CT 830

AT 830 C Binder

Temperature compensated
Housing material: plastic
Cable length: 150 cm
Diameter: 12 mm
Shaft length: 120 mm



Technical Data	AT 830 C
Conductivity measurement range	0 µS ... 500 mS
Temperature measurement range	0 °C ... +100 °C (+32 °F ... +212 °F)

Type	Description	Part No.
AT 830 C Binder	Plastic electrode	1339-0660

Interface cable for PHT 830 and CT 830

EBI IF 830

For reading out the memory of the PHT 830 and CT830

- Software connection
Winlog.pro, Winlog.med,
Winlog.validation



Type	Description	Part No.
EBI IF 830	Interface for PHT 830 and CT 830	1340-6011

PHX 800 Basic pH Tester with acoustic signal



- Automatic deactivation
- Battery charge indicator
- Replaceable battery

Technical Data

pH measurement range	0 pH ... 14 pH
pH measurement accuracy	0.1 pH
pH resolution	±0.2 pH
Operating temperature	0 °C ... +50 °C (+32 °F ... +122 °F)
Storage temperature	-25 °C ... +60 °C (-13 °F ... +140 °F)
Housing material	ABS plastic
Dimension (L x W x H)	170 x 32 x 15 mm
Weight	Approximately 70 g
Battery	1.5 V A76/LR44
Battery lifetime	Approximately 150 hours
Deactivation	Automatically after 15 minutes

Type	Description	Part No.
PHX 800	Basic pH Tester	1340-5800

TDS 3 Basic Conductivity Tester Dual Display



- Battery charge indicator
- Replaceable battery

Technical Data

Measurement range	0 ... 1,999 µS	0 ... 1,999 ppm
	0 ... 19.99 mS	0 ... 19.99 ppt
Measurement accuracy	1 µS	
Resolution	1 µS	
Operating temperature	0 °C ... +50 °C (+32 °F ... +122 °F)	
Storage temperature	-25 °C ... +60 °C (-13 °F ... +140 °F)	
Housing material	ABS plastic	
Dimension (L x W x H)	170 x 32 x 15 mm	
Weight	Approximately 70 g	
Battery	4 x 1.5 V A76/LR44	
Battery lifetime	Approximately 150 hours	

Type	Description	Part No.
TDS 3	Basic Conductivity Tester	1340-5831