

xylem

Benchtop & portable meters

pH, ORP, oxygen, conductivity, turbidity,
and ISE measurement for your application



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Meters from Xylem Analytics

This brochure is structured according to areas of application: First, you will find our **laboratory measuring devices (benchtop)** for stationary use, followed by robust **portable measuring devices** for mobile applications. Selection guides, technical specifications, and application examples will help you choose the optimal device for your requirements.

Our promise

WTW® stands for reliability, precision, and tested quality **"Made in Germany."** Decades of experience—from groundbreaking sensors in the 1960s to state-of-the-art measuring platforms today—go hand in hand with our promise to provide customers worldwide with durable, reliable, and precisely calibrated products.

Tradition meets innovation

WTW® has been developing and manufacturing measuring instruments and sensors in Weilheim, **for over 80 years.** What began as a scientific and technical workshop has since become part of Xylem Analytics Germany and is known worldwide for its high quality standards in analytical measurement technology. Our products are used all over the world.

Our product portfolio

This brochure provides a comprehensive overview of our range of portable and lab measuring instruments for **pH, ORP, conductivity, oxygen, turbidity,** and **ISE** measurement. Whether you perform routine measurements in the laboratory, carry out mobile field measurements, or require complex multiparameter analyses, we have the right solution for your requirements.

Wide range of applications

WTW® measuring devices are used in a **wide variety of areas**—anywhere where **reliable analysis** is required: drinking water and wastewater analysis, environmental and water monitoring, the food and beverage industry, pharmaceutical production, chemical analysis, research and development, the automotive industry, and aquaculture.



Measuring devices – overview

The WTW® product range is clearly structured according to your area of application: Stationary laboratory measuring devices for maximum precision and convenience, as well as robust portable measuring devices for mobile measurements on site.



Benchtop meters

- Stationary use in the laboratory
- High operating comfort
- Extensive documentation options
- GxP-compliant measurements (some models)
- Large & clear displays
- Intuitive menu navigation
- Highest measurement accuracy & precision
- Larger design with extended functions
- Ideal for detailed analyses
- IP 43



MultiLab® Pro IDS Serie
Premium lab meters
(2 models)



inoLab® Serie
Comfortable lab meters
(7 models)



Analog meters

- Analog raw signals are transmitted from the sensor to the meter
- Conversion of raw signals into digital measured values in the meter
- Measuring devices are parameter-specific (pH device, LF device, O₂ device, etc.)
- Compatible with standard electrodes from all manufacturers (DIN, BNC)
- Proven, robust technology that has been in use for decades
- Cost-effective
- Wide range of sensors available



inoLab® Serie
Comfortable lab meters
(6 models)



ProfiLine Serie
Robust portable meters
(9 models)



Portable meters

- Mobile use on site
- Fast results in the field
- Compact and lightweight
- Ideal for water monitoring, wastewater analysis, or service calls
- Robust construction for harsh conditions
- Battery or rechargeable battery powered
- IP 67



MultiLine® Serie
Professional portable meters
(3 models)



ProfiLine Serie
Robust portable meters
(9 models)



IDS meters

- Sensor transmits digital measured values
- Parameter-independent – the sensor determines the parameter
- Digital signal transmission – no interference or signal loss
- Automatic sensor detection
- Calibration remains stored and preserved in the sensor
- Cable lengths of up to 100 meters possible without signal degradation
- Wireless capability via Bluetooth modules (IDS WLM)



MultiLab® Pro IDS Serie
Premium lab meters
(2 models)



inoLab® Multi IDS
Comfortable lab meter
(1 model)



MultiLine® Serie
Professional portable meters
(3 models)

Parameters - overview



pH value

The pH value indicates whether a solution is acidic, neutral, or alkaline—measured on a scale from 0 to 14. pH meters allow you to control this crucial parameter, as almost every chemical reaction and analysis in the laboratory depends on the correct pH value.

Benchtop meters

- inoLab® pH 7110
- inoLab® pH 7310
- inoLab® pH/ION 7320
- inoLab® Multi 9310 IDS
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- ProfiLine pH 3110
- ProfiLine pH 3310
- ProfiLine pH/ION 3310
- ProfiLine pH/Cond 3320
- ProfiLine Multi 3320
- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS



Dissolved oxygen

Dissolved oxygen describes the amount of oxygen that is dissolved in a solution—depending on temperature, pressure, and other dissolved substances. With our oxygen measuring devices, you can monitor this important parameter.

Benchtop meters

- inoLab® Oxi 7310
- inoLab® Multi 9310 IDS
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- ProfiLine Oxi 3205
- ProfiLine Oxi 3310
- ProfiLine Multi 3320
- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS



ORP potential

The ORP potential indicates whether oxidation or reduction processes are taking place in a solution. ORP measuring devices allow you to monitor these important chemical processes and control your processes precisely—which is particularly important when analyzing oxidation-sensitive substances.

Benchtop meters

- inoLab® pH 7110
- inoLab® pH 7310
- inoLab® pH/ION 7320
- inoLab® Multi 9310 IDS
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- ProfiLine pH 3110
- ProfiLine pH 3310
- ProfiLine pH/ION 3310
- ProfiLine pH/Cond 3320
- ProfiLine Multi 3320
- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS



Ion-selective

Ion-selective electrodes (ISE) specifically measure individual ions such as fluoride, nitrate, potassium, and many more. With ISE measuring devices, you can analyze quickly and precisely, even in complex or turbid samples.

Benchtop meters

- inoLab® pH/ION 7320
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- ProfiLine pH/ION 3310
- ProfiLine pH/Cond 3320
- ProfiLine Multi 3320



Conductivity

Dissolved salts, acids, and alkalis increase the conductivity of a solution. Our precise conductivity meters immediately indicate contaminations, monitor the purity of water, and assist in controlling cleaning and desalination processes.

Benchtop meters

- inoLab® Cond 7110
- inoLab® Cond 7310
- inoLab® Multi 9310 IDS
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- ProfiLine Cond 3110
- ProfiLine Cond 3310
- ProfiLine pH/Cond 3320
- ProfiLine Multi 3320
- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS



Turbidity

Turbidity is caused by suspended particles, suspended solids, or colloidal particles that scatter light in a solution. With our turbidity meters, you can determine the particle concentration of your samples.

Note: Devices are not suitable for drinking water monitoring < 1 NTU FNU!

Benchtop meters

- inoLab® Multi 9310 IDS
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS

Industries - overview



Food & Beverages

- pH control in fermentation processes and product quality
- Conductivity measurement for monitoring cleaning processes
- Turbidity determination in beverages and liquids
- Oxygen measurement to prevent oxidation and flavor changes

Benchtop meters

- inoLab® pH 7110
- inoLab® pH 7310
- inoLab® Cond 7110
- inoLab® Cond 7310
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- ProfiLine pH 3110
- ProfiLine pH 3310
- ProfiLine pH/Cond 3320
- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS



Water analysis

- pH value for assessing water quality
- Conductivity as a quick test for total salt content
- Turbidity for filtration control in treatment plants
- Dissolved oxygen for water monitoring and drinking water quality

Benchtop meters

- inoLab® pH 7110
- inoLab® pH 7310
- inoLab® Cond 7110
- inoLab® Cond 7310
- inoLab® Oxi 7310
- inoLab® Multi 9310 IDS
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- ProfiLine Cond 3110
- ProfiLine Cond 3310
- ProfiLine Oxi 3310
- ProfiLine Multi 3320
- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS



Chemistry & Energy & Industrial

- ORP potential monitoring in chemical reactions and syntheses
- pH and conductivity control in process water and cooling circuits
- ISE measurements, e.g. in electroplating
- Oxygen measurement in boiler feed water and closed systems
- Monitoring of the pH value in the process water of chemical plants

Benchtop meters

- inoLab® pH 7110
- inoLab® pH 7310
- inoLab® Cond 7110
- inoLab® Cond 7310
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- ProfiLine pH 3110
- ProfiLine pH 3310
- ProfiLine Cond 3110
- ProfiLine Cond 3310
- ProfiLine pH/Cond 3320
- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS



Agriculture / Aquaculture

- pH measurement in irrigation water and nutrient solutions
- Ion-selective determination of nitrate, ammonium, and potassium in soils
- Oxygen monitoring in fish farming facilities and aquaculture systems
- Conductivity control for fertilizer concentration and salt content

Benchtop meters

- inoLab® pH 7110
- inoLab® Cond 7110
- inoLab® pH/ION 7320
- inoLab® Multi 9310 IDS

Portable meters

- ProfiLine pH 3110
- ProfiLine pH/ION 3310
- ProfiLine Cond 3310
- ProfiLine Oxi 3205
- ProfiLine Oxi 3310
- ProfiLine Multi 3320
- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS



Pharma

- Precise pH measurement for GMP-compliant production processes
- Conductivity monitoring of ultrapure water and WFI (water for injection)
- Ion-selective determinations in active ingredient solutions

Benchtop meters

- inoLab® pH 7110
- inoLab® pH 7310 (P)
- inoLab® Cond 7110
- inoLab® Cond 7310 (P)
- MultiLab® Pro 20 IDS
- MultiLab® Pro 40 IDS

Portable meters

- ProfiLine pH 3310
- ProfiLine Cond 3310
- ProfiLine pH/Cond 3320
- MultiLine® Multi 3510 IDS
- MultiLine® Multi 3620 IDS
- MultiLine® Multi 3630 IDS



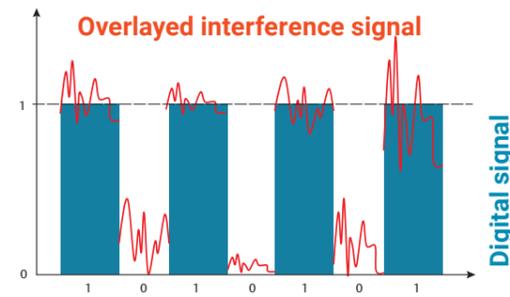
The IDS system

What does IDS mean?

IDS stands for "Intelligent Digital Sensors" – measurement technology with integrated signal processing directly in the sensor head

The operating principle: While conventional (analog) sensors transmit analog raw signals to external measuring devices via cables, IDS sensors integrate a **miniaturized measuring device** directly in the sensor head. The analog-to-digital conversion takes place **directly at the measuring point** – before the signal passes through the transmission path, which is susceptible to interference.

The technical advantage: Digital signal transmission eliminates electromagnetic interference, noise, and signal-related errors. The result is **fail-safe data transmission** with demonstrably higher signal integrity over cable lengths of up to 100 meters – without signal degradation.



Plug & Measure

IDS sensors are **automatically recognized and configured** by the measuring device – without manual input. Swap IDS sensors between different measuring devices as desired – all calibration data and parameter settings remain stored in the sensor and the calibration is retained in full.

IDS sensors are available in two versions:

- **Fixed cable version:** Integrated, defined cable length for stationary measurement setups
- **Plug-in head version:** Modular system with interchangeable cables or radio modules

The plug-in electrodes enable the use of Bluetooth wireless modules (range up to 10 m, dedicated 1:1 connection) for **wireless measurements** – ideal for spatially flexible measurement tasks, working under fume hoods, or to avoid cable spaghetti.

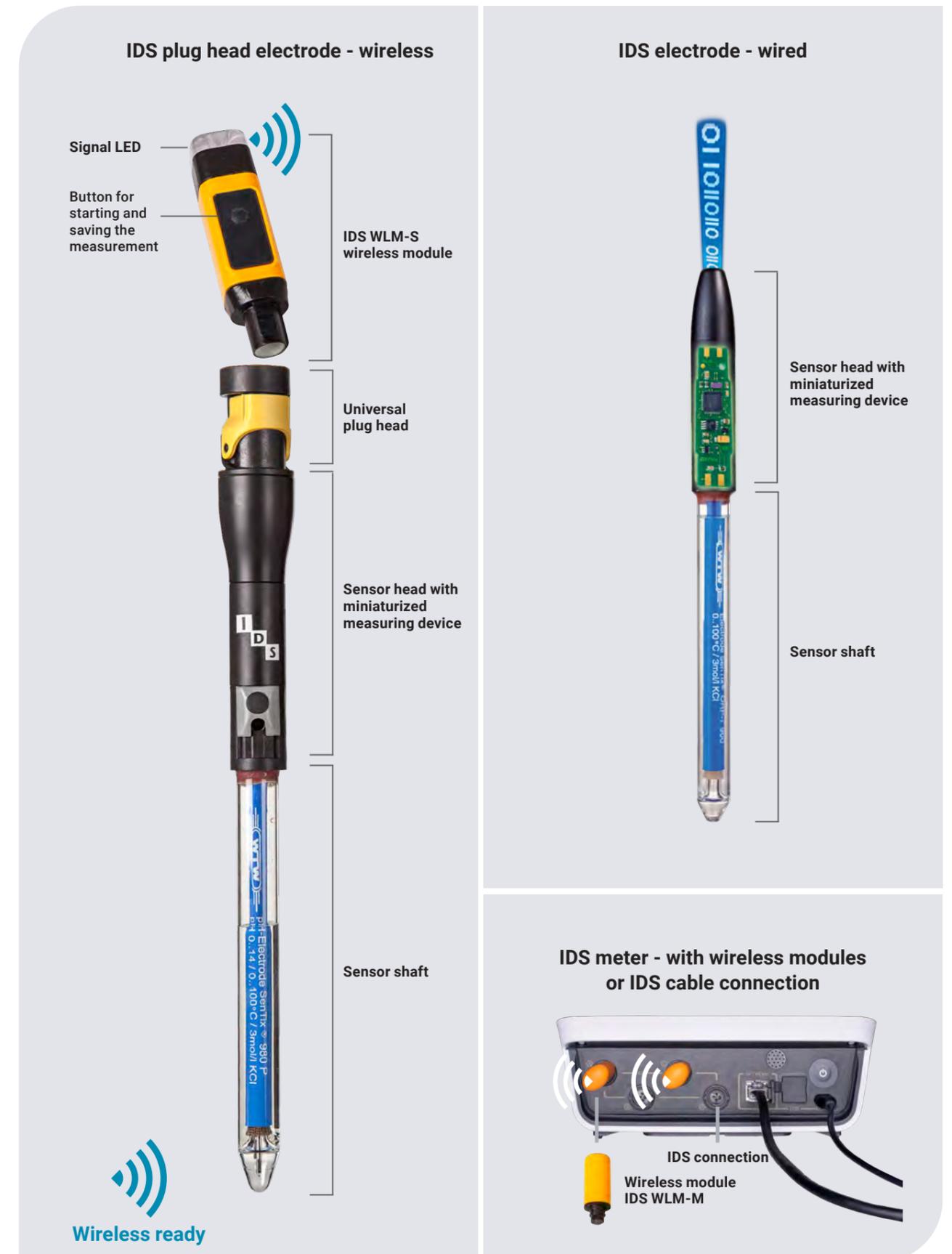
Full traceability and GxP compliance

All calibration data is permanently stored in the sensor, ensuring **complete traceability** throughout the entire sensor life cycle. In addition to the measured values, IDS sensors automatically transmit the following **metadata** to the measuring device:

- Sensor identification and serial number (unique identification)
- Complete calibration history with calibration status and expiration dates
- Sensor-specific parameters: Cell constants (K value for COND sensors), temperature compensation method
- Correction data: Membrane correction factors for optical O₂ sensors

This automatic metadata transfer ensures complete traceability and **supports GxP-compliant documentation** in accordance with regulatory requirements (FDA 21 CFR Part 11, EU GMP Annex 11).

IDS electrodes



Benchtop meters

WTW® benchtop measuring instruments are designed for **stationary use in the laboratory**. They offer maximum ease of use, extensive documentation options, and meet the requirements for GLP/GMP-compliant measurements. With large, clear displays and intuitive menu navigation, they are ideal for routine measurements in quality control, research, and development.

Model range of our benchtop meters:

MultiLab® Pro IDS Series:
Premium benchtop meter



inoLab® Series:
Comfortable routine analysis



Benchtop meters - guide

MultiLab® / inoLab®		Benchtop meters								
		IDS			Analog					
		MultiLab® Pro 20 IDS	MultiLab® Pro 40 IDS	inoLab® Multi 9310 IDS	inoLab® pH7110	inoLab® Cond 7110	inoLab® pH7310	inoLab® Cond 7310	inoLab® Oxi7310	inoLab® pH/ION 7320
Measurement channels		2	4	1	1	1	1	1	1	2
Parameters	pH	●	●	●	●	-	●	-	-	●
	ORP / mV	●	●	●	●	-	●	-	-	●
	Conductivity (Specific resistance, TDS, salinity)	●	●	●	-	●	-	●	-	-
	Dissolved Oxygen (Concentration, partial pressure, saturation)	●	●	●	-	-	-	-	●	-
	Turbidity	●	●	●	-	-	-	-	-	-
	ISE	●	●	-	-	-	-	-	-	●
	Temperature	●	●	●	●	●	●	●	●	●
Applications	Routine measurement	-	-	-	●	●	-	-	-	-
	Routine measurement with documentation	●	●	●	-	-	●	●	●	●
	GxP-supporting measurement	●	●	-	-	-	-	-	-	-
	R&D High resolution and precision	●	●	●	-	-	●	●	●	●
	Control measurements	●	●	●	●	●	●	●	●	●
	LIMS connection	●	●	-	-	-	●	●	●	●
	Quality assurance	●	●	●	-	-	●	●	●	●
	Education	-	-	-	●	●	-	-	-	-
	Service	-	-	-	-	-	-	-	-	-
	Lab measurements	●	●	●	●	●	●	●	●	●
Portable measurements	○	○	-	-	-	-	-	-	-	
Depth measurements	-	-	-	-	-	-	-	-	-	
Connections & Memory	IDS	2x	4x	1x	-	-	-	-	-	-
	DIN	-	-	-	○	-	○	-	-	2x
	BNC	-	-	-	○	-	○	-	-	2x
	8 pin	-	-	-	-	●	-	●	●	-
	4 mm banana	-	-	-	2x	-	2x	-	-	4x
	USB	2x USB-A USB-C	2x USB-A USB-C	Mini-USB-B	-	-	Mini-USB-B	Mini-USB-B	Mini-USB-B	Mini-USB-B
	Built-in printer (Optional)	-	-	○	-	-	○	○	○	○
	Protection class	IP 43	IP 43	IP 43*	IP 43	IP 43	IP 43*	IP 43*	IP 43*	IP 43*
	Manual memory	>40 GB	>40 GB	494	-	-	500	500	500	500
	Autom. memory	>40 GB	>40 GB	4,500	-	-	5,000	5,000	5,000	5,000

- = suitable
- = conditionally usable
- = optional

*=without printer



MultiLab® Pro IDS

Premium benchtop meters with IDS technology

The MultiLab® Pro IDS is a modern, high-performance multiparameter device with **up to 4 galvanically isolated measurement channels** for pH, ORP, mV, conductivity, oxygen, ISE, and turbidity measurement.

Up to 4 identical or different parameters can be measured simultaneously. With its brilliant **7" touch display** under a hygienic glass cover, it is the perfect solution for demanding tasks, even in critical (GxP) areas.

With the MultiLab® Pro IDS, you can free yourself from cables and use **wireless modules** in conjunction with Intelligent Digital Sensor Heads (IDS) to measure conveniently under fume hoods or safety cabinets, for example.

The MultiLab® Pro IDS series is ideal for research laboratories, reference laboratories, and quality control with the highest demands. Simultaneous multiparameter measurement saves time, and IDS technology guarantees error-free sensor replacement. The large touch display allows convenient operation and clear display of all measured values.



Highlights MultiLab® Pro IDS series

- pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation), turbidity, ISE, and temperature (measuring range of the respective IDS sensor)
- 2 or 4 simultaneous measuring channels
- Large 7" touch display with intuitive operation
- IDS technology (Intelligent Digital Sensors) – automatic sensor recognition
- Protection class IP 43
- GxP-compliant (21 CFR Part 11)
- LIMS-ready
- USB interfaces
- Power supply for continuous operation in the laboratory
- Mobile operation with power bank possible (min. 15W)



Technical data MultiLab® Pro IDS series

MultiLab® Pro 20 IDS

Parameters	pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation), turbidity, ISE, and temperature (measuring range of the respective IDS sensor)	
Measuring channels	2	
Dimensions	approx. 197 x 161 x 70 mm	
Weight	approx. 0.6 kg	
Air pressure [mbar]: Measuring range/accuracy	330 ... 1.100	±4
Operating temperature	0 °C up to +40 °C	
Protection class	IP 43	
Data storage	>40 GB	
Connections/interfaces	2 x IDS, 1x USB-C, 2 x USB-A, Ethernet (RJ45)	



MultiLab® Pro 40 IDS

Parameters	pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation), turbidity, ISE, and temperature (measuring range of the respective IDS sensor)	
Measuring channels	4	
Dimensions	approx. 197 x 161 x 70 mm	
Weight	approx. 0.6 kg	
Air pressure [mbar]: Measuring range/accuracy	330 ... 1.100	±4
Operating temperature	0 °C up to +40 °C	
Protection class	IP 43	
Data storage	>40 GB	
Connections/interfaces	4 x IDS, 1x USB-C, 2 x USB-A, Ethernet (RJ45)	



Order information MultiLab® Pro IDS

	Model	Description	Order no.
Multiparameter	MultiLab® Pro 20 IDS	Device with stand & power supply	1FD760
	MultiLab® Pro 20 IDS S2	Device with stand & power supply, SenTix® 980 (pH), TetraCon® 925 (COND), accessories	1FD76C
	MultiLab® Pro 20 IDS WL	Device with stand & power supply, IDS WLM-Kit (wireless modules)	1FD76W
	MultiLab® Pro 40 IDS	Device with stand & power supply	1FD780
	MultiLab® Pro 40 IDS S4	Device with stand & power supply, SenTix® 980 (pH), TetraCon® 925 (COND), FDO® 925 (DO), SenTix® ORP-T 900 (ORP), accessories	1FD78K
	MultiLab® Pro 40 IDS WL	Device with stand & power supply, IDS WLM-Kit (wireless modules)	1FD78W

Comfortable benchtop meters

The inoLab® series was developed specifically for **routine measurements in the laboratory**. The devices feature a large, clear display, intuitive menu navigation, and extensive data storage. Ideal for routine measurements in quality control, production, and research.

inoLab® Multi 93xx IDS series

The inoLab® Multi 9310 IDS with one digital measuring channel is ideal for getting started with digital multi-parameter measurement using IDS sensors - even wireless. IDS technology makes it easy to perform optimal measurements and document them efficiently.

Highlights Multi 93xx IDS series

- Measures pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation), turbidity, and temperature (measuring range of the respective IDS sensor)
- Single-channel multiparameter meter for IDS sensors
- Digital sensor recognition
- Optional built-in printer
- Backlit graphic display with CMC and QSC display
- Adapter for conventional pH/redox electrodes
- Automatic memory with 4,500 entries
- Prepared for IDS radio modules
- **Documentation according to GLP/AQS:**
 - » Automatic, digital recording of all sensor data for unambiguous traceability of measured values
 - » Activable user management for secure assignment of users and measurement results
 - » Transfer of all data in *.csv format via USB interface to PC, formatted transfer to Excel on request (MultiLab® Importer, included in delivery or available as download).
 - » Output directly in the device via optional built-in printer possible



Technical data inoLab® Multi 93xx IDS series

inoLab® Multi 9310 IDS

Parameters	pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation), turbidity, and temperature (measuring range of the respective IDS sensor)	
Measuring channels	1	
Dimensions	approx. 230 x 190 x 80 mm approx. 290 x 190 x 80 mm (with printer)	
Weight	approx. 0.8 kg approx. 1.0 kg (with printer)	
Air pressure [mbar]: Measuring range/accuracy	300 ... 1100 mbar	± 43 mbar
Operating temperature	+5 °C ... +55 °C, with connected plug-in power supply: +5 °C ... +40 °C	
Protection class	IP 43 (without printer)	
Data storage	Manual: 494, automatic: 4,500	
Connections/interfaces	1x IDS, Mini-USB-B	

inoLab® Multi 9310 IDS



Lab



Multi



inoLab® 71xx series - analog

The analog inoLab® 71 series is ideal for **routine measurements** in laboratories where automatic documentation is not a priority.

Highlights inoLab® 71xx series

- Devices measure pH, ORP (mV) or conductivity (specific resistance, TDS, salinity) and temperature
- 1 measuring channel
- Easy to use
- Large multifunction display
- Reproducible measurement results thanks to the automatic AutoRead function with independent detection of stable measurement values
- Calibration timer
- MultiCal® calibration system
- Automatic temperature compensation
- Large, clear LCD display



inoLab® Cond 7110

Parameters	Conductivity (specific resistance, TDS, salinity), temperature
Measuring channels	1
Dimensions	approx. 230 x 190 x 80 mm
Weight	approx. 1.0 kg
Operating temperature	+5 °C ... +55 °C, with connected plug-in power supply: +5 °C ... +40 °C
Protection class	IP 43
Data storage	-
Connections/interfaces	8 pin

Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
χ [μ S/cm]	0.000...1999	0.001...1	± 0.5 %
χ [mS/cm]	2.00...1000	0.01...1	± 0.5 %
Spec. resistance [M Ω m*cm/ k Ω m*cm/Ohm*cm]	1.000...1999	0.001...1	± 0.5 %
SAL	0.0...70.0 (according IOT)	0.1	± 0.1 (+5 °C ... +25 °C) ± 0.2 (+25 °C ... +30 °C)
TDS [mg/l, g/l]	0 ...1999 mg/l	1	± 0.5 %
Temperature [°C]	-25.0...+125.0	0.1	± 0.1



Technical data inoLab® 71xx series

inoLab® pH 7110

Parameters	pH, ORP (mV), temperature		
Measuring channels	1		
Dimensions	approx. 230 x 190 x 80 mm		
Weight	approx. 1.0 kg		
Operating temperature	+5 °C ... +55 °C, with connected plug-in power supply: +5 °C ... +40 °C		
Protection class	IP 43		
Data storage	-		
Connections/interfaces	DIN or BNC, 2 x 4 mm banana		

Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
pH	-2.0...+19.999	0.1...0.001	± 0.1...0.005
Temperature [°C]	-5.0...+105.0	0.1	± 0.1
U [mV]	-1200.0 ... +1200.0 -2000 ... +2000	0.1 1	± 0.3 ± 1



inoLab® 73xx series

Precise **analog laboratory measuring devices** for use in quality assurance, the pharmaceutical industry, and wherever **GLP-supported documentation** is required.

Highlights inoLab® 73xx series

- Devices measure pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation) or ISE and temperature
- 1-2 (pH/ION 7320) measuring channels
- Optional built-in printer
- Backlit graphic display
- Measurement values are transmitted with date, time, ID number, and (manually enterable) sensor serial number
- Reproducible measurement results thanks to the automatic AutoRead function with independent detection of stable measurement values
- CMC function for measuring range monitoring
- **Documentation according to GLP/AQS:**
 - » Alphanumeric entry of electrode serial number
 - » Transfer of all data in *.csv format via USB interface to PC, formatted transfer to Excel (MultiLab® Importer)
 - » Output possible via optional built-in printer
- Blank value correction, increment methods: standard addition, standard subtraction, sample addition, sample subtraction (inoLab® pH/ION)



Technical data inoLab® 73xx series

inoLab® pH 7310

Parameters	pH, ORP (mV), temperature		
Measuring channels	1		
Dimensions	approx. 230 x 190 x 80 mm approx. 280 x 230 x 80 mm (with printer)		
Weight	approx. 0.8 kg approx. 1.0 kg (with printer)		
Operating temperature	+5 °C ... +55 °C, with connected plug-in power supply: +5 °C ... +40 °C		
Protection class	IP 43 (without printer)		
Data storage	Manual: 500, automatic: 5,000		
Connections/interfaces	DIN or BNC, 2 x 4 mm banana, Mini-USB-B		
Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
pH	-2.0...+19.999	0.1...0.001	± 0.1...0.005
Temperature [°C]	- 5.0...+105.0	0.1	± 0.1
U [mV]	-1200.0 ... +1200.0 -2500 ... +2500	0.1 1	± 0.3 ± 1



inoLab® Cond 7310

Parameters	Conductivity (specific resistance, TDS, salinity), temperature		
Measuring channels	1		
Dimensions	approx. 230 x 190 x 80 mm approx. 280 x 230 x 80 mm (with printer)		
Weight	approx. 0.8 kg approx. 1.0 kg (with printer)		
Operating temperature	+5 °C ... +55 °C, with connected plug-in power supply: +5 °C ... +40 °C		
Protection class	IP 43 (without printer)		
Data storage	Manual: 500, automatic: 5,000		
Connections/interfaces	8 pin, Mini-USB-B		
Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
κ [µS/cm]	0.000...1999	0.001...1	± 0.5 %
κ [mS/cm]	2.00...1000	0.01...1	± 0.5 %
Spec. resistance [MΩ*cm/ kΩ*cm/Ω*cm]	1.000...1999	0.001...1	± 0.5 %
SAL	0.0...70.0 (according IOT)	0.1	± 0.1 (+5 °C ... +25 °C) ± 0.2 (+25 °C ... +30 °C)
TDS [mg/l, g/l]	0 mg/l...199.9 g/l	1...0.1	± 0.5 %
Temperature [°C]	-5.0 ... +105.0 °C	0.1	± 0.1



inoLab® Oxi 7310

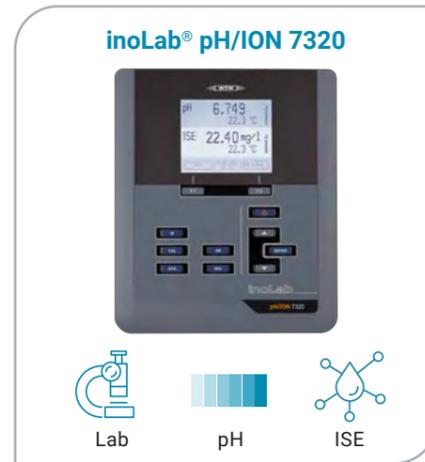
Parameters	Dissolved oxygen (concentration, partial pressure, saturation), temperature		
Measuring channels	1		
Dimensions	approx. 230 x 190 x 80 mm approx. 280 x 230 x 80 mm (with printer)		
Weight	approx. 0.8 kg approx. 1.0 kg (with printer)		
Operating temperature	+5 °C ... +55 °C, with connected plug-in power supply: +5 °C ... +40 °C		
Protection class	IP 43 (without printer)		
Data storage	Manual: 500, automatic: 5,000		
Connections/interfaces	8 pin, Mini-USB-B		
Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
Concentration [mg/l]	0...20.00 20.0...90.0	0.01 0.1	± 0.5 %
Saturation [%]	0...200.0 0...600	0.1 1	± 0.5 %
Partial pressure [mbar]	0...200.0 0...1250	0.1 1	± 0.5 %
Temperature [°C]	0...50.0	0.1	± 0.1



inoLab® pH/ION 7320

Parameters	pH, ORP (mV), ISE, temperature
Measuring channels	2
Dimensions	approx. 230 x 190 x 80 mm approx. 280 x 230 x 80 mm (with printer)
Weight	approx. 0.8 kg approx. 1.0 kg (with printer)
Operating temperature	+5 °C ... +55 °C, with connected plug-in power supply: +5 °C ... +40 °C
Protection class	IP 43 (without printer)
Data storage	Manual: 500, automatic: 5,000
Connections/interfaces	2 x DIN or 2 x BNC, 4 x 4 mm banana, Mini-USB-B

Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
pH	-2.0...+19.999	0.1...0.001	± 0.1 ... 0.005
Temperature [°C]	- 5.0...+105.0	0.1	± 0.1
U [mV]	-1200.0...+1200.0 -2500...+ 2500	0.1 1	± 0.3 ± 1
ISE/Conc. [mg/l, µmol/l, mmol/l, mg/ kg, ppm, %]	0.000...999999	0.001...1	



Order information inoLab® series

	Model	Description	Order no.	
Multi series	Multiparameter	inoLab® Multi 9310 IDS	Single unit, universal power supply, stand, USB cable	1FD350
		inoLab® Multi 9310P	Single unit with built-in printer, universal power supply, stand, USB cable	1FD350P
		inoLab® Multi 9310 Set 1	Single unit with digital pH electrode SenTix® 940, buffer 4, 7, 10.01 and 3 mol/l KCl, universal power supply, stand, USB cable	1FD351
		inoLab® Multi 9310 Set 2	Single unit with digital pH electrode SenTix® 980, buffer 4, 7, 10.01 and 3 mol/l KCl, universal power supply, stand, USB cable	1FD352
		inoLab® Multi 9310 Set 3	Single unit with digital 4-electrodes graphite conductivity measuring cell TetraCon® 925, 0,01 mol/l KCl, universal power supply, stand, USB cable	1FD353
		inoLab® Multi 9310 Set 4	Single unit with digital optical dissolved oxygen sensor FDO® 925, universal power supply, stand, USB cable	1FD354
		inoLab® Multi 9310 Set C	Single unit with digital pH electrode SenTix® 940 and digital 4-electrodes graphite conductivity measuring cell TetraCon® 925 buffer 4, 7, 10.01 and 3 mol/l KCl, 0,01 mol/l KCl, universal power supply, stand, USB cable	1FD35C
71xx series	pH	inoLab® pH 7110	Single unit (DIN connection), universal power supply, stand	1AA110
		inoLab® pH 7110 Set 2	Single unit (DIN connection) with pH electrode SenTix® 41, Buffer 4, 7 and 10.01 and 3 mol/l KCl, with universal power supply, stand	1AA112
		inoLab® pH 7110 Set 4	Single unit (DIN connection) with pH electrode SenTix® 81, Buffer 4, 7 and 10.01 and 3 mol/l KCl, with universal power supply, stand	1AA114
		inoLab® pH 7110 BNC	Single unit (BNC connection), universal power supply, stand	1AA120
COND	inoLab® Cond 7110	Single unit, universal power supply, stand	1CA100	
	inoLab® Cond 7110 Set 1	Single unit, 4-electrodes graphite conductivity measuring cell TetraCon® 325, 0,01 mol/l KCl conductivity standard with universal power supply, stand	1CA101	
73xx series	pH	inoLab® pH 7310	Single unit (DIN connection), universal power supply, stand, USB cable	1AA310
		inoLab® pH 7310P	Single unit (DIN connection) with built-in printer, universal power supply, stand, USB cable	1AA310P
		inoLab® pH 7310 Set 2	Single unit (DIN connection) with pH electrode SenTix® 41, Buffer 4, 7 and 10.01 and 3 mol/l KCl, universal power supply, stand, USB cable	1AA312
		inoLab® pH 7310 Set 4	Single unit (DIN connection) with pH electrode SenTix® 81, Buffer 4, 7 and 10.01 and 3 mol/l KCl, universal power supply, stand, USB cable	1AA314
		inoLab® pH 7310 BNC	Single unit (BNC connection) with universal power supply, stand, USB cable	1AA320
		inoLab® pH 7310P BNC	Single unit (BNC connection) with built-in printer, universal power supply, stand, USB cable	1AA320P
COND	inoLab® Cond 7310	Single unit, universal power supply, stand, USB cable	1CA300	
	inoLab® Cond 7310P	Single unit with built-in printer, universal power supply, stand, USB cable	1CA300P	
	inoLab® Cond 7310 Set 1	Single unit with 4-electrodes graphite conductivity measuring cell TetraCon® 325, 0,01 mol/l KCl, universal power supply, stand, USB cable	1CA301	
O ₂	inoLab® Oxi 7310	Single unit, universal power supply, stand, USB cable	1BA300	
	inoLab® Oxi 7310P	Single unit with built-in printer, universal power supply, stand, USB cable	1BA300P	
	inoLab® Oxi 7310 Set 1	Single unit with galvanic oxygen sensor CellOx® 325, electrolyte, sanding film, replacement membrane caps, universal power supply, stand, USB cable	1BA301	
	inoLab® Oxi 7310 Set 4	Single unit with self-stirring oxygen sensor StirrOx®, electrolyte, sanding film, replacement membrane caps, universal power supply, stand, USB cable	1BA304	
pH/ISE	inoLab® pH/ION 7320	Single unit (DIN connection), universal power supply, stand, USB cable	1GA330	
	inoLab® pH/ION 7320P	Single unit (DIN connection) with built-in printer, universal power supply, stand, USB cable	1GA330P	
	inoLab® pH/ION 7320 BNC	Single unit (BNC connection), universal power supply, stand, USB cable	1GA340	

Portable meters

Portable measuring devices from WTW® are designed for use in demanding conditions. Whether for water monitoring, wastewater analysis, or service applications, these robust handheld measuring devices deliver reliable measurement results directly on site.

Model series of our portable meters:

MultiLine® series:

Professional monitoring with IDS



ProfiLine series:

Compact and robust for mobile use



Portable meters guide

MultiLine® / ProfiLine		Portable meters											
		MultiLine® Multi 3510 IDS	IDS			Analog							
			MultiLine® Multi 3620 IDS	MultiLine® Multi 3630 IDS	ProfiLine pH 3110	ProfiLine Cond 3110	ProfiLine Oxi 3205	ProfiLine pH 3310	ProfiLine Cond 3310	ProfiLine Oxi 3310	ProfiLine pH/ION 3310	ProfiLine pH/Cond 3320	ProfiLine Multi 3320
Measuring channels	1	2	3	1	1	1	1	1	1	1	2	2	
Parameters	pH	●	●	●	●	-	-	●	-	-	●	●	●
	ORP / mV	●	●	●	●	-	-	●	-	-	●	●	●
	Conductivity (Specific resistance, TDS, salinity)	●	●	●	-	○ (without spec. resistance & TDS)	-	-	●	-	-	●	●
	Dissolved Oxygen (Concentration, partial pressure, saturation)	●	●	●	-	-	●	-	-	●	-	-	●
	Turbidity	●	●	●	-	-	-	-	-	-	-	-	-
	ISE	-	-	-	-	-	-	-	-	-	●	●	●
	Temperature	●	●	●	●	●	●	●	●	●	●	●	●
Applications	Routine measurement	-	-	-	●	●	●	-	-	-	-	-	
	Routine measur. with documentation	●	●	●	-	-	-	●	●	●	●	●	
	GxP-supporting measurement	●	●	●	-	-	-	●	●	●	●	●	
	R&D High resolution and precision	●	●	●	-	-	-	-	-	-	-	-	
	Control measurements	●	●	●	●	●	●	●	●	●	●	●	
	LIMS connection	●	●	●	-	-	-	●	●	●	●	●	
	Quality assurance	●	●	●	-	-	-	●	●	●	●	●	
	Education	-	-	-	●	●	●	-	-	-	-	-	
	Service	●	●	●	●	●	●	●	●	●	●	●	
	Lab measurements	○	○	○	-	-	-	○	○	○	○	○	
Portable measurements	●	●	●	●	●	●	●	●	●	●	●		
Depth measurements	-	-	●*	-	-	-	-	-	-	-	-		
Connections & Memory	IDS	1x	2x	3x	-	-	-	-	-	-	-	-	
	DIN	-	-	-	●	-	-	●	-	-	●	●	
	BNC	-	-	-	-	-	-	-	-	-	-	-	
	8 pin	-	-	-	-	●	●	-	●	●	-	●	
	4 mm banana	-	-	-	-	-	-	2x	-	-	2x	●	
	USB	Mini-USB-B	USB-A Mini-USB-B	USB-A Mini-USB-B	-	-	-	Mini-USB-B	Mini-USB-B	Mini-USB-B	Mini-USB-B	Mini-USB-B	
	Built-in printer (Optional)	-	-	-	-	-	-	-	-	-	-	-	
	Protection class	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	
	Manual memory	494	500	500	-	-	-	200	200	200	200	200	
	Autom. memory	4,500	10,000	10,000	-	-	-	5,000	5,000	5,000	5,000	5,000	

● = suitable
○ = conditionally usable

*=with MPP 930 up to 100 m

MultiLine®

MultiLine® series

The MultiLine® IDS series represents the professional class of **portable field measuring devices**. Equipped with intelligent **IDS** technology (Intelligent Digital Sensors), these devices automatically recognize all connected sensors and load their calibration data. Ideal for **demanding field measurements** with the highest requirements for accuracy, documentation, and flexibility.

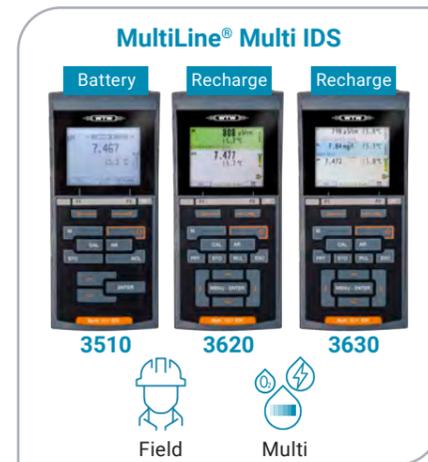
Highlight MultiLine® series

- Devices measure pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation), turbidity, and temperature (measuring range of the respective IDS sensor)
- Up to 3 universal measuring channels
- Water- and dust-proof according to IP 67
- Keyboard made from a single piece – no gaps
- Easy to clean with a soft brush under running water
- Includes practical case (except WL-Sets)
- Waterproof USB interfaces
- NiMH rechargeable batteries in the device for efficient mobile operation (except 3510)
- Stationary power supply via power adapter or USB interface
- Prepared for IDS radio modules
- GLP/AQS-compliant documentation



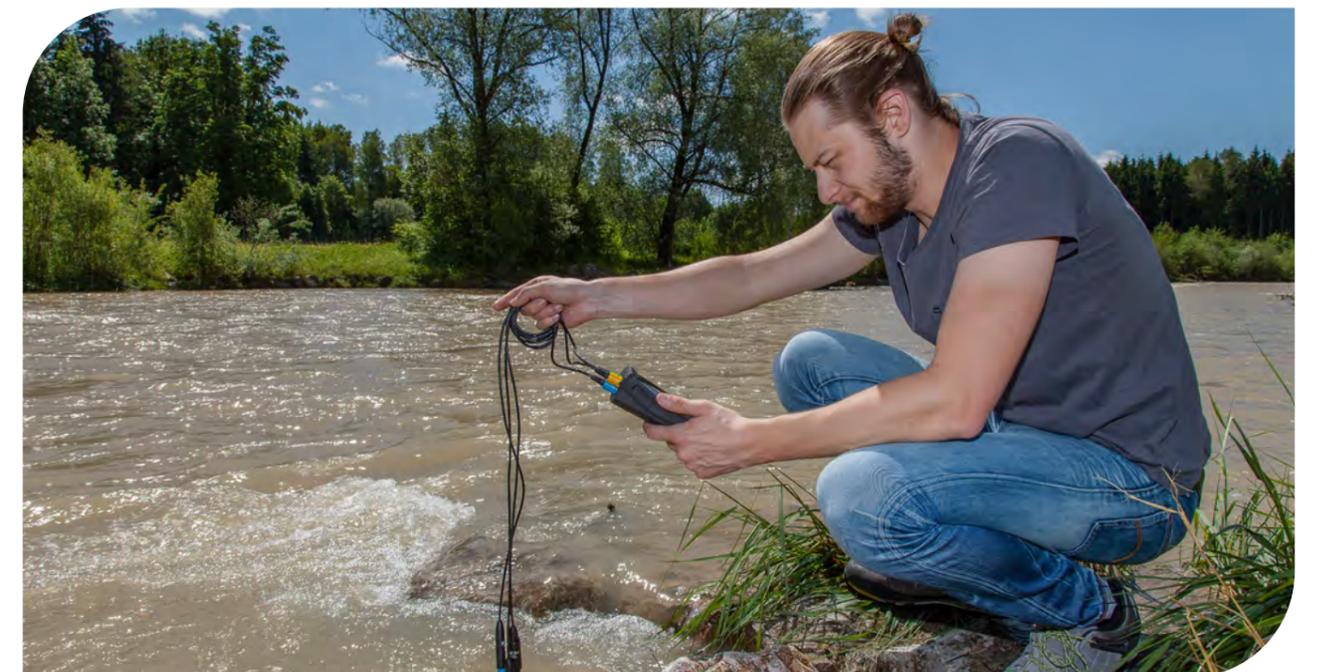
Technical data MultiLine® series

MultiLine® Multi 3510 / 3620 / 3630 IDS		
Parameters	pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation), turbidity, and temperature (measuring range of the respective IDS sensor)	
Measuring channels	1 (3510), 2 (3620), 3 (3630)	
Dimensions	approx. 180 x 80 x 55 mm	
Weight	approx. 0.4 kg	
Air pressure [mbar]: Measuring range/accuracy	300 ... 1100	± 43
Operating temperature	-10 °C ... +55 °C, with connected plug-in power supply: +5 °C ... +40 °C	
Protection class	IP 67	
Data storage	Manual: 494, automatic: 4,500 (3510) Manual: 500, automatic: 10,000 (3620 & 3630)	
Connections/interfaces	1-3 x IDS, Mini-USB-B, USB-A (only 3620 & 3630)	



Order information MultiLine® Multi IDS

Model	Description	Order no.	
MultiLine® 3510 IDS	Single unit in case, buffers 4 and 7, 0,01 mol/l KCl conductivity standard, batteries, USB cable	2FD350	
MultiLine® 3510 IDS Set 1	Single unit in case with digital pH electrode SenTix® 940, buffers 4 and 7, 0,01 mol/l KCl conductivity standard, batteries, USB cable	2FD351	
MultiLine® 3510 IDS Set 3	Single unit in case with digital 4-electrodes graphite conductivity measuring cell TetraCon® 925, batteries, USB cable	2FD353	
MultiLine® 3510 IDS Set 4	Single unit in case with digital optical dissolved oxygen sensor FDO® 925, batteries, USB cable	2FD354	
MultiLine® 3510 IDS Set KS1	Single unit in case, buffers 4 and 7, 0,01 mol/l KCl conductivity standard, stand, beaker, batteries, USB cable, armoring SM Pro	2FD35U	
MultiLine® 3620 IDS	Single unit in case, buffers STP 4 and STP 7, 0,01 mol/l KCl conductivity standard, rechargeable batteries, cable, universal power supply, armoring SM Pro	2FD560	
MultiLine® 3620 IDS Set C	Single unit in case with IDS sensors (pH electrode SenTix® 940, 4-electrodes graphite conductivity measuring cell TetraCon® 925, QSC-Kit (EVE obligatory)), buffers STP 4 and STP 7, 0,01 mol/l KCl conductivity standard, rechargeable batteries, cable, universal power supply, armoring SM Pro	2FD56C	
Multiparameter	MultiLine® 3620 IDS Set G	Single unit in field case with IDS sensors (pH electrode SenTix® 940-3, 4-electrodes graphite conductivity measuring cell TetraCon® 925-3, optical dissolved oxygen sensor FDO® 925-3, QSC-Kit (EVE obligatory)), buffers STP 4 and STP 7, 0,01 mol/l KCl conductivity standard, rechargeable batteries, cable, universal power supply, armoring SM Pro	2FD56G
	MultiLine® 3620 IDS Set WL	Single unit, rechargeable batteries, cable, universal power supply, armoring SM Pro, IDS WLM-M module	2FD56W
	MultiLine® 3630 IDS	Single unit in case, buffers STP 4 and STP 7, 0,01 mol/l KCl conductivity standard solution, rechargeable batteries, cable, power supply, armoring SM Pro	2FD570
MultiLine® 3630 IDS Set F	Single unit in field case with IDS sensors (pH electrode SenTix® 940, 4-electrodes graphite conductivity measuring cell TetraCon® 925, optical dissolved oxygen sensor FDO® 925, QSC-Kit (EVE obligatory)), buffer STP 4 and STP 7, 0,01 mol/l KCl conductivity standard, stand, beaker, rechargeable batteries, cable, power supply, armoring SM Pro	2FD57F	
MultiLine® 3630 IDS Set G	Single unit in field case with IDS sensors (pH electrode SenTix® 940-3, 4-electrodes graphite conductivity measuring cell TetraCon® 925-3, optical dissolved oxygen sensor FDO® 925-3, QSC-Kit (EVE obligatory)), buffer STP 4 and STP 7, 0,01 mol/l KCl conductivity standard, stand, beaker, rechargeable batteries, cable, power supply, armoring SM Pro	2FD57G	
MultiLine® 3630 IDS Set KS2	Single unit in field case with QSC Kit (EVE obligatory), buffer STP 4 and STP 7, 0,01 mol/l KCl conductivity standard, stand, beaker, rechargeable batteries, cable, power supply, armoring SM Pro	2FD57V	
MultiLine® 3630 IDS Set WL	Single unit, rechargeable batteries, cable, power supply, armoring SM Pro, IDS WLM-M module	2FD57W	



ProfiLine

Compact & robust portable meters

The ProfiLine series is the first choice for mobile measurements in the field. These compact handheld measuring devices combine robustness with precision and are perfectly tailored to the requirements of outdoor use.

ProfiLine 3110/3205 series

The ProfiLine 31xx/32xx series is ideal for anyone looking for a simple, robust, and waterproof device for portable measurement.

Highlights ProfiLine 3110/3205 series

- Devices measure pH, ORP (mV), conductivity (salinity) or dissolved oxygen (concentration, partial pressure, saturation) and temperature
- 1 measuring channel
- Waterproof according to IP 67
- Includes practical case
- Waterproof USB interface for fast data transfer
- 3-point calibration, integrated calibration timer
- Easy to use
- Reproducible measurement results thanks to the automatic AutoRead function with independent detection of stable measured values
- Keyboard can be operated with gloves
- Large, clear display
- Automatic nF temperature compensation according to DIN EN 27888 (ProfiLine Cond)



Technical data ProfiLine 31xx/32xx series

ProfiLine pH 3110

Parameters	pH, ORP (mV), temperature		
Measuring channels	1		
Dimensions	approx. 180 x 80 x 55 mm		
Weight	approx. 0.4 kg		
Operating temperature	-10 °C ... + 55 °C		
Protection class	IP 67		
Data storage	-		
Connections/interfaces	DIN		
Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
pH	-2.0...+19.999	0.1...0.001	± 0.1...0.005
Temperature [°C]	- 5.0...+105.0	0.1	± 0.1
U [mV]	-1200.0 ... +1200.0 -2000 ... +2000	0.1 1	± 0.3 ± 1



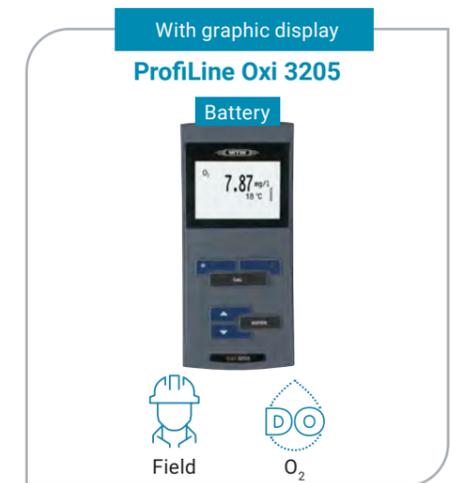
ProfiLine Cond 3110

Parameters	Conductivity, salinity, temperature		
Measuring channels	1		
Dimensions	approx. 180 x 80 x 55 mm		
Weight	approx. 0.4 kg		
Operating temperature	-10 °C ... + 55 °C		
Protection class	IP 67		
Data storage	-		
Connections/interfaces	8 pin		
Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
κ [μS/cm]	0.0...1999	0.1..1	± 0.5 %
κ [mS/cm]	2.00...1000	0.01...1	± 0.5 %
SAL	0.0...70.0 (according IOT)	0.1	± 0.1 (+ 5 °C ... + 25 °C) ± 0.2 (+ 25 °C ... + 30 °C)
Temperature [°C]	-5.0 ... +105.0 °C	0.1	± 0.1



ProfiLine Oxi 3205

Parameters	Dissolved oxygen (concentration, partial pressure, saturation), temperature		
Measuring channels	1		
Dimensions	approx. 180 x 80 x 55 mm		
Weight	approx. 0.4 kg		
Operating temperature	-10 °C ... + 55 °C		
Protection class	IP 67		
Data storage	-		
Connections/interfaces	8 pin		
Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
Concentration [mg/l]	0...20.00 0...90.0	0.01 0.1	± 0.5 %
Saturation [%]	0...200.0 0...600	0.1 1	± 0.5 %
Partial pressure [mbar]	0...200.0 0...1250	0.1 1	± 0.5 %
Temperature [°C]	0...50.0	0.1	± 0.1



ProfiLine 33xx series

The ProfiLine 33xx series is an elegant combination of a robust pocket measuring device and data logger for anyone who wants to automatically save measurement series and process them further on a PC.

Highlights ProfiLine 33xx series

- Devices measure pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation) or ISE and temperature
- 1-2 (pH/Cond 3320) measurement channels
- Robust and waterproof (IP 67)
- Includes practical case
- Simple 1- to 5-point calibration with adjustable calibration timer
- 24 stored buffer sets for easy calibration
- Backlit graphic display with CMC display & plain text menus for convenient and safe operation
- **Documentation according to GLP/AQS:**
 - » Alphanumeric entry of the electrode serial number
 - » Transfer of all data in *.csv format via USB interface to PC, formatted transfer to Excel (MultiLab® Importer)
- Measurement values are transmitted with date, time, ID number, and (manually enterable) sensor serial number
- Reproducible measurement results thanks to the automatic AutoRead function with independent detection of stable measurement values
- CMC function for measuring range monitoring



Technical data ProfiLine 33xx series

ProfiLine pH 3310			
Parameters	pH, ORP (mV), temperature		
Measuring channels	1		
Dimensions	approx. 180 x 80 x 55 mm		
Weight	approx. 0.4 kg		
Operating temperature	-10 °C ... + 55 °C		
Protection class	IP 67		
Data storage	Manual: 200 / Automatic: 5,000		
Connections/interfaces	DIN, 2 x 4 mm banana, Mini-USB-B		
Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
pH	-2.0...+19.999	0.1...0.001	± 0.1...0.005
Temperature [°C]	- 5.0...+105.0	0.1	± 0.1
U [mV]	-1200.0...+1200.0 -2500...+2500	0.1 1	± 0.3 ± 1



ProfiLine Cond 3310

Parameters	Conductivity (specific resistance, TDS, salinity), temperature		
Measuring channels	1		
Dimensions	approx. 180 x 80 x 55 mm		
Weight	approx. 0.4 kg		
Operating temperature	-10 °C ... + 55 °C		
Protection class	IP 67		
Data storage	Manual: 200 / Automatic: 5,000		
Connections/interfaces	8 pin, Mini-USB-B		
Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
x [µS/cm]	0.000...1999	0.001 ... 1	± 0.5 %
x [mS/cm]	2.00...1000	0.01...1	± 0.5 %
Spec. resistance [MΩ*cm/ kΩ*cm/Ω*cm]	1.000...1999	0.001 ... 1	± 0.5 %
SAL	0.0...70.0 (Accord. IOT)	0.1	± 0.1 (+ 5 °C ... + 25 °C) ± 0.2 (+ 25 °C ... + 30 °C)
TDS [mg/l, g/l]	0 mg/l ... 199.9 g/l	1...0.1	± 0.5 %
Temperature [°C]	-5.0...+105.0	0.1	± 0.1



ProfiLine Oxi 3310

Parameters	Dissolved oxygen (concentration, partial pressure, saturation), temperature		
Measuring channels	1		
Dimensions	approx. 180 x 80 x 55 mm		
Weight	approx. 0.4 kg		
Operating temperature	-10 °C ... + 55 °C		
Protection class	IP 67		
Data storage	Manual: 200 / Automatic: 5,000		
Connections/interfaces	8 pin, Mini-USB-B		
Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
Concentration [mg/l]	0...20.00 0...90.0	0.01 0.1	± 0.5 %
Saturation [%]	0...200.0 0...600	0.1 1	± 0.5 %
Partial pressure [mbar]	0...200.0 0...1250	0.1 1	± 0.5 %
Temperature [°C]	0...50.0	0.1	± 0.1



ProfiLine pH/ION 3310

Parameters	pH, ORP (mV), ISE, temperature
Measuring channels	1
Dimensions	approx. 180 x 80 x 55 mm
Weight	approx. 0.4 kg
Operating temperature	-10 °C ... +55 °C
Protection class	IP 67
Data storage	Manual: 200 / Automatic: 5,000
Connections/interfaces	DIN, 2 x 4 mm banana, Mini-USB-B

Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
pH	-2.0...19.999	0.1...0.001	± 0.1...0.005
Temperature [°C]	- 5.0...+105.0	0.1	± 0.1
U [mV]	-1200.0...+1200.0 -2500...+2500	0.1 1	± 0.3 ± 1
ISE/Conc. [mg/l, μmol/l, mmol/l, mg/kg, ppm, %]	0.000...999999	0.001...1	



ProfiLine pH/Cond 3320

Parameters	pH, ORP (mV), conductivity (specific resistance, TDS, salinity), ISE, temperature
Measuring channels	2
Dimensions	approx. 180 x 80 x 55 mm
Weight	approx. 0.4 kg
Operating temperature	-10 °C ... +55 °C
Protection class	IP 67
Data storage	Manual: 200 / Automatic: 5,000
Connections/interfaces	DIN, 8 pin, 4 mm banana, Mini-USB-B

Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
pH	-2.0...+19.999	0.1...0.001	± 0.1...0.005
Temperature [°C]	- 5.0...+105.0	0.1	± 0.1
U [mV]	-1200.0...+1200.0 -2500...+2500	0.1 1	± 0.3 ± 1
ISE/Conc. [mg/l, μmol/l, mmol/l, mg/kg, ppm, %]	0.000...999999	0.001...1	
κ [μS/cm]	0.000...1999	0.001...1	± 0.5 %
κ [mS/cm]	2.00...1000	0.01...1	± 0.5 %
Spec. resistance [MΩ*cm/ kΩ*cm/Ω*cm]	1.000...1999	0.001 ... 1	± 0.5 %
SAL	0.0...70.0 (Accord. IOT)	0.1	± 0.1 (+ 5 °C ... + 25 °C) ± 0.2 (+ 25 °C ... + 30 °C)
TDS [mg/l, g/l]	0 mg...199.9 g/l	1...0.1	± 0.5 %

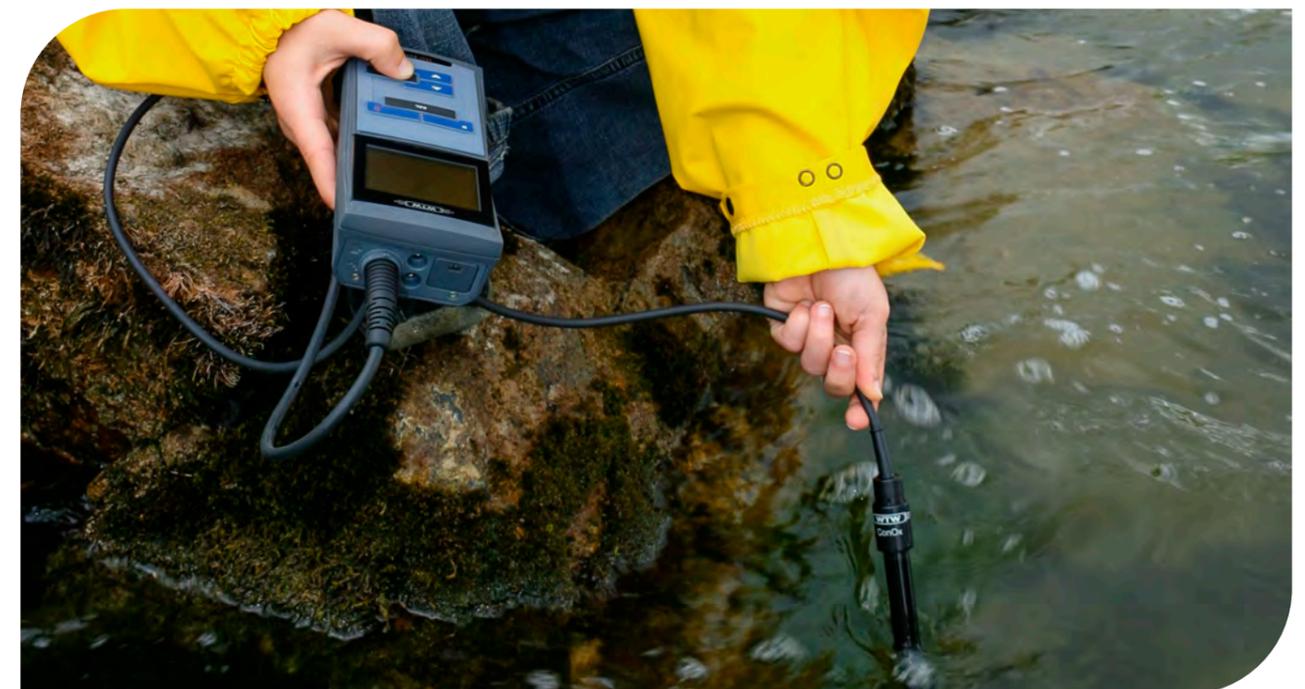


ProfiLine Multi series

The Multi 3320 measures pH, ORP, ISE conductivity, and dissolved oxygen (electrochemically). It is an ideal device for environmental applications in the field of groundwater and surface water measurement, in aquaculture, in sewage treatment plants, and much more. Also suitable for process applications where dissolved oxygen is important.

Highlights ProfiLine Multi series

- Devices measure pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation) or ISE and temperature
- 2 measuring channels
- Backlit graphic display for parallel display of measured values
- Perfect for all environmental applications
- Robust and waterproof (IP 67)
- Includes practical case
- Simple 1- to 5-point calibration with adjustable calibration timer
- 24 stored buffer sets for easy calibration
- **Documentation according to GLP/AQS:**
 - » Alphanumeric entry of the electrode serial number
 - » Transfer of all data in *.csv format via USB interface to PC, formatted transfer to Excel (MultiLab® Importer)
- Measurements are transmitted with date, time, ID number, and (manually enterable) sensor serial number
- Suitable for measurements according to pharmacopoeia
- Built-in salinity correction for measuring saline samples



Technical data ProfiLine Multi series

ProfiLine Multi 3320

Parameters	pH, ORP (mV), conductivity (specific resistance, TDS, salinity), dissolved oxygen (concentration, partial pressure, saturation), ISE, temperature
Measuring channels	2
Dimensions	approx. 180 x 80 x 55 mm
Weight	approx. 0.4 kg
Operating temperature	-10 °C ... +55 °C
Protection class	IP 67
Data storage	Manual: 200 / Automatic: 5,000
Connections/interfaces	DIN, 8 pin, 4 mm banana, Mini-USB-B

Parameter	Measur. range	Resolution	Accuracy (± 1 digit)
pH	-2.0...+19.999	0.1...0.001	± 0.1...0.005
Temperature [°C]	- 5.0...+105.0	0.1	± 0.1
U [mV]	-1200.0...+1200.0 -2500 ... +2500	0.1 1	± 0.3 ± 1
ISE/Conc.. [mg/l, μmol/l, mmol/l, mg/kg, ppm, %]	0.000...999999	0.001...1	
κ [μS/cm]	0.000 ... 1999	0.001...1	± 0.5 %
κ [mS/cm]	2.00...1000	0.01...1	± 0.5 %
Spec. resistance [MΩ*cm/kΩ*cm/Ω*cm]	1.000...1999	0.001...1	
SAL	0.0...70.0 (accord. IOT)	0.1	± 0.1 (+ 5 °C ... + 25 °C) ± 0.2 (+ 25 °C ... + 30 °C)
TDS [mg/l, g/l]	0 mg/l ... 199.9 g/l	1 ... 0.1	± 0.5 %
Concentration [mg/l]	0...20.00 20.0...90.0	0.01 0.1	± 0.5 %
Saturation [%]	0...200.0 0...600	0.1 1	± 0.5 %
Partial pressure [mbar]	0...200.0 0...1250	0.1 1	± 0.5 %
T [°C](Oxi)	0 ... 50.0	0.1	± 0.1



Order informationen ProfiLine series

	Model	Description	Order no.
31/32er series	ProfiLine pH 3110	Single unit in case, buffers STP 4 and STP 7, 3 mol/l KCl, batteries	2AA110
	ProfiLine pH 3110 Set 2	Single unit in case with pH electrode SenTix® 41, buffers STP 4 and STP 7, 3 mol/l KCl, stand, beaker, batteries	2AA112
	ProfiLine Cond 3110	Single unit in case, 0,01 mol/l KCl conductivity standard, batteries	2CA100
	ProfiLine Cond 3110 Set 1	Single unit in case with 4-electrodes graphite conductivity measuring cell TetraCon® 325 with standard solution 1413 μS/cm at 25 °C, stand, beaker, batteries	2CA101
	ProfiLine Oxi 3205	Single unit in case, batteries	2BA100
	ProfiLine Oxi 3205 Set 1	Single unit in case with galvanic dissolved oxygen sensor CelloX® 325 with cleaning solution, electrolyte, exchange membrane heads, stand, beaker, batteries <i>Attention: Please order cleaning solution RL-G 205204 separately.</i>	2BA101
33er series	ProfiLine pH 3310	Single unit in case, buffers STP 4 and STP 7, 3 mol/l KCl, batteries, USB cable	2AA310
	ProfiLine pH 3310 Set 2	Single unit in case with pH electrode SenTix® 41, buffers STP 4 and STP 7, stand, beaker, batteries, USB cable	2AA312
	ProfiLine Cond 3310	Single unit in case, 0,01 mol/l KCl conductivity standard, USB cable, batteries	2CA300
	ProfiLine Cond 3310 Set 1	Single unit in case with 4-electrodes graphite conductivity measuring cell TetraCon® 325 with standard solution 1413 μS/cm at 25 °C, stand, beaker, USB cable, batteries	2CA301
	ProfiLine Oxi 3310	Single unit in case, batteries, USB cable	2BA300
	ProfiLine Oxi 3310 Set 1	Single unit in case with galvanic dissolved oxygen sensor CelloX® 325 with cleaning solution, electrolyte, 3 exchange membrane heads, stand, beaker, batteries, USB cable <i>Attention: Please order cleaning solution RL-G 205204 separately.</i>	2BA301
Multi series	ProfiLine pH/ION 3310	Single unit in case, batteries, USB cable	2GA310
	ProfiLine pH/Cond 3320	Single unit in case, buffers STP 4 and STP 7, 0,01 mol/l KCl, batteries, USB cable	2EA310
	ProfiLine pH/Cond 3320 SET 2	Single unit in case with pH electrode SenTix® 41, 4-electrodes graphite conductivity measuring cell TetraCon® 325, buffers STP 4 and STP 7, 0,01 mol/l KCl., stand, beaker, batteries, USB cable	2EA312
Multi series	ProfiLine Multi 3320	Single unit in case, batteries, USB cable	2FA310
	ProfiLine Multi 3320 Set 1	Single unit in field case with pH electrode SenTix® 41, galvanic dissolved oxygen sensor CelloX® 325, 4-electrodes graphite conductivity measuring cell TetraCon® 325, sensor accessories, stand, beaker, armoring SM Pro, batteries, USB cable <i>Attention: Please order cleaning solution RL-G 205204 separately.</i>	2FA311
	ProfiLine Multi 3320 Set 2	Single unit in field case with pH electrode SenTix® 41-3, galvanic dissolved oxygen sensor CelloX® 325-3, 4-electrodes graphite conductivity measuring cell TetraCon® 325-3, sensor accessories, armoring SM Pro, stand, beaker, batteries, USB cable <i>Attention: Please order cleaning solution RL-G 205204 separately.</i>	2FA312

Accessories

Standard buffers

Name	Art.-No.	Description
 PL 2 (pH 1.679 /1.68) PL 4 (pH 4.006 /4.01) PL 7 (pH 6.865 /6.87) PL 9 (pH 9.180 /9.18) PL 12 (pH 12.47)	109000 109110 109120 109130 109400	Standard (DIN/NIST) buffer solution for special applications 1 x 250 ml
 SORT/K	109415	Calibration and maintenance set with standard (DIN/NIST) buffer solution: <ul style="list-style-type: none"> 3 bottles with 250 ml each: pH 4.006 - 6.865 - 9.180 1 bottle with 250 ml pepsin cleaning solution 1 bottle with 250 ml KCl solution 3 mol/l
 L 4798	285138238	DIN buffer solutions in FIOLAX® ampoules <ul style="list-style-type: none"> 3 x 20 FIOLAX® ampoules (17 ml each): pH 4,01, pH 6,87, pH 9,18 (traceably certified to PTB/NIST, hot steam sterilized)
 QSC Kit	109830	Initial calibration kit for IDS pH electrodes: <ul style="list-style-type: none"> 3 ampoules pH 4.01; pH 6.86; pH 9.18

KCl, cleaning and references

Name	Art.-No.	Description
 PEP/pH (3x250ml)	109648	Pepsin cleaning solution (<i>only for electrodes with liquid electrolytes</i>), to remove protein-containing contamination from the diaphragm, 3 x 250 ml
 KCl-50	109706	KCl solution, 3 mol/l, 1 x 50 ml
 KCl-250	109705	KCl solution, 3 mol/l, 1 x 250 ml
 ELY/ORP/Ag	109735	Electrolyte with 2 mol/l KNO ₃ + 0.001 mol/l KCl (<i>for combined Ag-electrode</i>), 1 x 250 ml
 RH 28	109740	ORP buffer solution pH 7, U _H = 427 mV, 1 x 250 ml

Storage

Name	Art.-No.	Description
 Z 453	285123170	Plastic container with compression ring seal and bayonet lock for electrodes with a diameter of 12 mm
 pH-Cap	108065	Replacement watering cap for SenTix® pH electrodes (12 mm shaft)

Technical buffer solutions

Name	Art.-No.	Description
 STP 4 (pH 4.01) STP 7 (pH 7.00) STP 10 Trace (pH 10.01)	108706 108708 108722	Technical buffer solution, 1 x 50 ml
 TPL 4 (pH 4.01) TPL 7 (pH 7.00) TPL 10 Trace (pH 10.01)	108800 108802 108805	Technical buffer solution, 1 x 250 ml
 TPL 4/10 (pH 4.01) TPL 7/10 (pH 7.00) TPL 10 Trace/10 (pH 10.01)	108801 108803 108809	Technical buffer solution, 10 x 250 ml
 TPL 4/25 (pH 4.01) TPL 7/25 (pH 7.00) TPL 10 Trace/25 (pH 10.01)	108811 108812 108814	Technical buffer solution, 25 x 250 ml
 TEP 2 (pH 2.00) TEP 4 (pH 4.01) TEP 7 (pH 7.00) TEP 10 Trace (pH 10.01)	108698 108700 108702 108703	Technical buffer solution, 1 x 1 Liter
 TEP 4/10 (pH 4.01) TEP 7/10 (pH 7.00) TEP 10 Trace/10 (pH 10.01)	108701 108725 108727	Technical buffer solution, 10 x 1 Liter
 TEP 4/25 (pH 4.01) TEP 7/25 (pH 7.00) TEP 10 Trace/25 (pH 10.01)	108728 108729 108731	Technical buffer solution, 25 x 1 Liter
 SORT/TPL/TRACE	108824	Calibration and maintenance set technical buffer solution: <ul style="list-style-type: none"> 3 bottles with 250 ml each: pH 4.01/7.00/10.01 Trace 1 bottle with 250 ml KCl solution 3 mol/l 1 bottle with 250 ml pepsin cleaning solution
 SORT/TPL/G/TRACE	108825	Calibration and maintenance set technical buffer solution (Gel electrodes): <ul style="list-style-type: none"> 3 bottles with 250 ml each: pH 4.01/7.0/10.01 Trace 2 bottles with 250 ml each: KCl solution 3 mol/l
 SORT/TEP/TRACE	108826	Calibration and maintenance set technical buffer solution: <ul style="list-style-type: none"> 3 bottles with 1 l each: pH 4.01/7.0/10.01 Trace 1 bottle with 250 ml: pepsin cleaning solution 1 bottle with 250 ml KCl solution 3 mol/l
 SORT/TEP/G/TRACE	108827	Calibration and maintenance set technical buffer solution (Gel electrodes): <ul style="list-style-type: none"> 3 bottles with 1 l each: pH 4.01/7.0/10.01 Trace 2 bottles with 250 ml each: KCl-Lösung 3 mol/l

Conductivity standard

Name	Art.-No.	Description
 E-SET Trace	300572	Calibration set for conductivity measurement <ul style="list-style-type: none"> 6 bottles with 50 ml each: calibration and control standard, KCl 0.01 mol/l, 1413 µS/cm bei 25 °C (traceable to PTB/NIST)
 LF 990 (KCl 0,001 mol/l) LF 991 (KCl 0,01 mol/l) LF 992 (KCl 0,1 mol/l)	285126503 285126528 285126511	Conductivity test solution in FIOLAX® ampoules <ul style="list-style-type: none"> 3 x 6 FIOLAX® ampoules (17 ml each): KCl 0,01 mol/l (1,41 mS/cm) (traceably certified to PTB/NIST, hot steam sterilized)
 LF 995	285126293	Conductivity test solution in FIOLAX® ampoules <ul style="list-style-type: none"> 3 x 6 FIOLAX® ampoules (17 ml each): KCl 0,01/0,1/1 mol/l (1,41 mS/cm / 12,9 mS/cm / 112 mS/cm) (traceably certified to PTB/NIST, hot steam sterilized)

Accessories

Cables & plugs

	Name	Art.-No.	Description	
Analog	 AS/DIN AS/DIN - 3	108110 (1m) 108112 (3m)	Connection cable with DIN plug (for pH/ORP electrodes with plug head)	
	 AS/BNC	108114	Connection cable with BNC plug (for pH/ORP electrodes with plug head) 1 m cable	
	 ADA-DIN-BNC	108509	Adapter for connecting pH electrodes with BNC plug to a meter with DIN socket	
IDS	 IDS WLM-S	108141	Wireless module for IDS plug head sensors for radio transmission of measurement values. Includes rechargeable LiPo-battery. Splash water protected according IP 66.	
	 IDS WLM-M	108142	Wireless module for connecting to MultiLine® 3310/3510/36x0 IDS and inoLab® Multi IDS. Connects up to three sensors at the same time (depends on meter capabilities). Also for operation of OxiTop®-IDS.	
	 WLM Charger	108143	Charger without external power supply for charging IDS WLM-S modules, with USB plug, cascable, with USB cable. For charging via PC or external USB power supply.	
	 IDS WLM Kit	108144	Kit consisting of one of each IDS WLM-S, IDS WLM-M and WLM Charger including USB power supply for wireless operation of IDS plug head sensors.	
		AS/IDS-1.5 AS/IDS-3 AS/IDS-10 AS/IDS-15 AS/IDS-20 AS/IDS-40 AS/IDS-60 AS/IDS-100	903850 (1.5m) 903851 (3m) 903853 (10m) 903854 (15m) 903855 (20m) 903857 (40m) 903858 (60m) 903859 (100m)	Connection cable for MPP IDS respectively IDS sensors with waterproof plug head
	 ADA S7/IDS	108130	Adapter cable 1.5 m with digital connector, for connecting a SenTix® combination electrode with S7 plug head to a MultiLine® or inoLab® IDS.	

Flow-through vessel

Name	Art.-No.	Description
 D 3Sen	903842	Flow-through vessel for up to three pH, ORP, D.O. or conductivity sensors (also IDS). With tube adapter for commercially available garden hoses inner diameter 19 mm (3/4"). Including clamp also for mast mounting.

Case sets

Name	Art.-No.	Description
 KS Universal	2F0001	Universal Case set for all analog and digital handhelds (<i>without meter and sensors</i>) incl. <ul style="list-style-type: none"> • Armoring SM Pro • Buffer STP 4 und STP 7 • Stand & beaker • Conductivity standard 1413 µS/cm at 25° C
 KS MultiLine® 2	2F0004	Field set for MultiLine® multiparameter systems with 3 IDS sensors (large field case) (<i>without meter and sensors</i>) incl.: <ul style="list-style-type: none"> • Armoring SM Pro • Buffer STP 4 and STP 7 • Stand & beaker • Conductivity standard 1413 µS/cm at 25° C

Armorings

Name	Art.-No.	Description
 A pHLab/K	903841	Plastic armor for protecting pH and ORP electrodes with length 120 mm in the field and in a plant
 A 325/K	903830	Plastic armor with protective hood for oxygen sensor CellOx® 325 and conductivity cell TetraCon® 325
 A 925/K	903836	Armor for IDS field sensors including guard, suitable for TetraCon® 925, SensoLyt® 900, FDO® 925, material: POM .
 A 925-P/K	903839	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P, VisoTurb® 900-P, material: POM .
 A 925-P/S	903840	Armor for IDS field sensors including guard designed for TetraCon® 925-P, SensoLyt® 900-P, SensoLyt® ORP 900-P, FDO® 925-P, material: Stainless steel .

Stands

Name	Art.-No.	Description
 STH 650	109809	Benchtop stand for pH electrodes, ion-sensitive electrodes, reference electrodes, temp sensors, oxygen sensors and TetraCon® 325 cond cells
 STH 9400	109813	Stand including electrode holder for right or left mounting, for inoLab® 94x0

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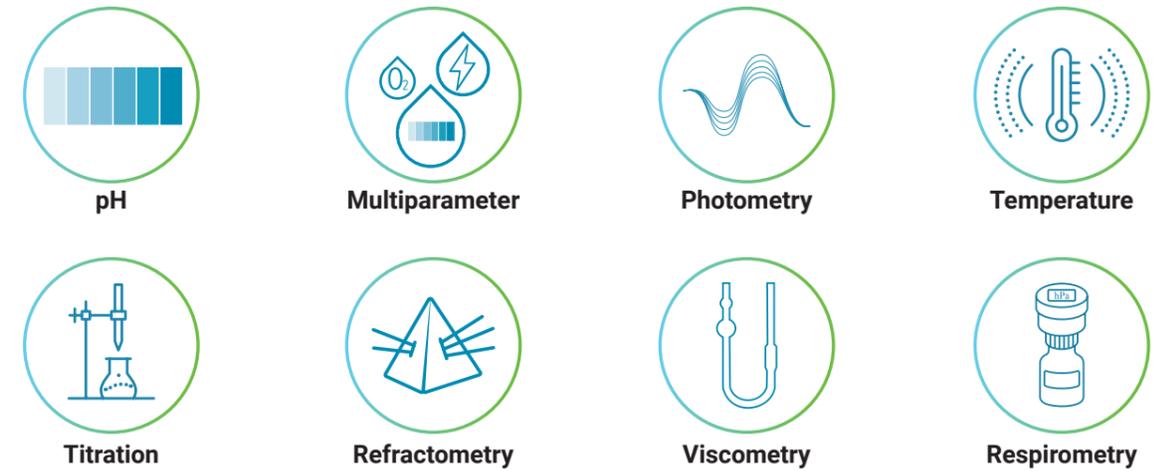
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?

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To our tool



Question 1:
Which parameter do you measure?

Question 2:
How many channels?

Question 3+4:
Where do you measure?
Digital or analog?

Result:
Clear recommendation!



The right sensors for your meters

We have been developing and manufacturing glass electrodes for more than 80 years. Our electrodes have long been used for the most demanding tasks and are at home in laboratories around the world wherever they really matter. What began with a patent for pH electrodes now encompasses a range of many different sensors: whether for ultrapure water, jam, wine, creams, or drinking water—we offer the right electrode for every conceivable application. Our extensive range of electrodes is as diverse as the applications themselves.

Overview of all sensors:

<https://www.xylyanalytics.com/en/products/electrodes-sensors-measurement-cells>



Our sensor portfolio



pH electrodes

- High-performance lab electrodes and robust field electrodes
- Plastic or glass shaft with precision glass
- Optional built-in temperature sensor
- Gel or liquid filling
- Available as digital (IDS) sensors



ORP electrodes

- Metal electrode made of precious metal
- Includes reference electrode
- Reference system silver/silver chloride
- Available as digital (IDS) sensors



Conductivity measurement cells

- Two electrode measuring cells
- Four electrode measuring cells
- Graphite
- Stainless steel
- Available as digital (IDS) sensors



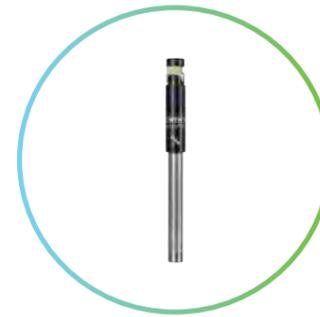
Oxygen sensors

- Galvanic dissolved oxygen sensors
- Self-stirring dissolved oxygen sensors
- Optical dissolved oxygen sensors (DIN ISO 17289)
- Available as digital (IDS) sensors



Ion selective electrodes

- Combined ISE & GSE electrodes
- Glass electrodes
- Matrix electrodes
- Solid-state electrodes



Turbidity sensors

- Digital turbidity sensor
- Measures FNU or NTU
- Corrosion-resistant titanium housing
- Waterproof up to 10 bar

? pH electrode selector

Simply answer 5 questions in our new online tool and you will receive the right pH electrode for your application.



To our tool



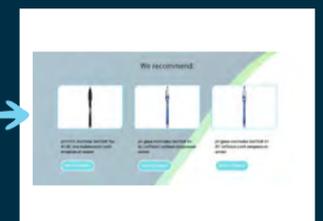
Question 1:
Where do you measure?



Question 2+3:
Application area?
Measuring sample?



Question 4+5:
Temperature sensor?
Connections?



Result:
Clear recommendation!

Xylem | 'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

Xylem (XYL) is a Fortune 500 global water solutions company that empowers customers and communities to build a more water-secure world. Our 23,000 diverse employees delivered combined pro forma revenue of \$8.1 billion in 2023, optimizing water and resource management with innovation and expertise.

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The information in the current operating instructions is decisive for safe operation.

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February 2026

The xylem logo, consisting of a stylized green and blue wave-like graphic to the left of the word 'xylem' in a lowercase, sans-serif font.