



ProfiLine Handhelds

FOR PH, ISE, DISSOLVED OXYGEN AND CONDUCTIVITY



a xylem brand

ProfiLine

Single Parameter Instruments

Data-logging

Mobile Lab

Measurements

Communication

Communication

Surface waters

Quality

Ground Water

Fishfarming

Wastewater

Measurements

Mobile Lab

pH

Cond

D.O.

3110 Series and 3205 : Functional and easy-to-use

Easy-to-clean

For people who want a reliable, simple and easy-to-use portable pH meter, the **pH3110** is the right choice.

- Robust meter housing plus 100 % waterproof and easy-to-clean keypad
- Keys with tactile feedback for error-free operation
- Built-in calibration timer for reliable results

For conductivity measurement the **Cond3110** is available with a 2- or 4-electrode cell for general purpose applications.

The **Oxi 3205** is an excellent easy-to-use D.O. instruments with a backlit graphic display - ideal for applications like fish farming.

Ease-of-use guarantees dependable results whether measuring surface water or the chemical process.



Robust sealed silicone keypad - 100% waterproof



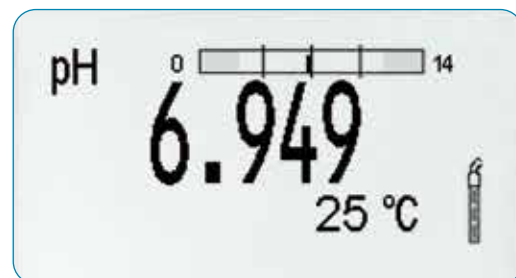


3310 Series: Versatile measurement combined with high capacity data logging

The Serie 3310 is perfectly suited for measurements in different applications with defined sensors and exact data sampling. For traceability the instrument allows the storing of a sample ID. The measuring instruments **pH3310**, **pH/ION3310**, **Cond3310** and **Oxi3310** have the following advantages:

- Interval controlled datalogging function for up to 5000 records: perfect for long-term recording in the field
- 100 % waterproof USB interface for field measurement
- Fast data transfer to laptop or PC

Secures your measurement range



The CMC function (Continuous Measurement Control) of a pH 3310 informs you whether you are measuring inside the calibrated range. An alert is given as soon as you are outside the limits.

Waterproof USB interface



100 % waterproof USB interface for fast communication with a PC or laptop.

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pH/Cond 3320: Perfect for Process Application

The pH/Cond 3320 with two inputs for pH, mV, ISE and Conductivity measurement is an all-rounder for almost every application in chemical process, Life Science, food and beverages and pharmaceutical industry (Measurement of pH and conductivity according pharmacopeia standards)

- Two inputs for simultaneous measurement of pH/mV/ISE and conductivity
- Backlit two channel LCD display
- Suitable for all modern WTW pH, electrodes, combined ISE electrodes and conductivity cells



The pH/Cond 3320 has a robust waterproof housing (IP 67) and is equipped with a large memory and a data logging function with an adjustable interval between 1 s and 60 minutes. All records have a time and date stamp as well as an assignable ID number. The waterproof USB interface makes data transfer fast and easy.

Water proof socket field



With waterproof mini USB-B interface for up-to-date data transfer.





pH

ISE

D.O.

Cond

Simultaneous measurement



Display with two measured values

Multi 3320: The Environmental Expert

The Multi 3320 for measurement of pH, ORP, ISE, conductivity and dissolved oxygen (electro chemical) is a perfect meter for environmental applications in ground and surface water, aqua culture, waste water treatment plants and much more. An integrated ISE routine allows also occasional ISE measurement.

- Two inputs for simultaneous measurements of pH and conductivity or pH and dissolved oxygen
- Backlit two channel display
- For all up-to-date WTW pH electrodes, combined ISEs, conductivity cells and galvanic oxygen sensors



The Multi 3320 has a robust waterproof housing (IP 67) and memory with data logger with adjustable interval between 1 s and 60 minutes. The keypad can also be operated when wearing gloves and is easy to clean under a water jet.



Technical Data

(all values ± 1 digit)

Instrument	3110/3205	3310/3320
Calibration memory	current calibration	up to 10 calibrations
Celsius/Fahrenheit	yes	yes
AutoRead	automatic	automatic/manual selectable
Display	Customized LCD, 3205: LCD graphic display, backlit	LCD graphic display, backlit
Data memory	-	manual 200/5000 automatic
Logger	-	manual/time controlled
Interface	-	USB 1.1
Power supply	4 x 1.5 V AA oder 4 x 1.2 V NiMH-rechargeable battery	4 x 1.5 V AA oder 4 x 1.2 V NiMH-rechargeable battery
Continuous operation time	up to 3000 hours (pH 3110) to 1000 hours/800 hours (Cond 3110/Oxi 3205: 100 hours with backlit)	up to 100 hours/800 hours w/o backlit
Protection class	IP 67	IP 67

Model	pH 3110	pH 3310,pH/ION 3310,pH/Cond 3320, Multi 3320
pH	-2.0 ... 20.0 ± 0.1 pH -2.00 ... 20.00 ± 0.01 pH -2.000 ... 19.999 ± 0.005 pH	-2.0 ... 20.0 ± 0.1 pH -2.00 ... 20.00 ± 0.01 pH -2.000 ... 19.999 ± 0.005 pH
mV	$\pm 1200.0 \pm 0.3$ mV $\pm (2000 \pm 1)$ mV	$\pm 1200.0 \pm 0.3$ mV $\pm (2500 \pm 1)$ mV
ISE (mg/l, $\mu\text{mol/l}$, mg/kg, ppm, %)	-	0.000 ... 9.999 (Not pH 3310) 10.00 ... 99.99 100.0 ... 999.9 1000 ... 999999
Temperature	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$
CMC	-	yes
Calibration	1-. 2-. 3 point WTW Technical and NIST Buffer	1-. 2-. 3-. 4-. 5 point WTW Technical NIST and 20 additional buffer sets pH/ION 3320,pH/Cond 3320,Multi 3320: ISE: 2-7 point

Model	Oxi 3205	Oxi 3310
Dissolved Oxygen Concentration*	0.00 ... 20.00 mg/l ± 0.5 % of val. 0 ... 90 mg/L ± 0.5 % of val.	0.00 ... 20.00 mg/l ± 0.5 % of val. 0 ... 90 mg/L ± 0.5 % of val.
Saturation*	0.0 ... 200.0% ± 0.5 % of val. 0 ... 600 % ± 0.5 of val.	0.0 ... 200.0% ± 0.5 % of val. 0 ... 600 % ± 0.5 of val.
Partial pressure*	0 ... 200.0 hPa, 0 ... 1250 hPa. ± 0.5 % of val.	0 ... 200.0 hPa, 0 ... 1250 hPa. ± 0.5 % of val.
Temperature	-5.0 ... 50.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$	-5.0 ... 50.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$
Calibration	CellOx®/DurOx® with calibration vessels	CellOx®/DurOx® with calibration vessels versus external standard
Built-in barometric sensor	yes	yes

* depending

Model	Cond 3110	Cond 3310
Conductivity	0.0 ... 1000 mS/cm ± 0.5 % of val.	0.0 ... 1000 mS/cm ± 0.5 % of val.
additionally		0.000 ... 1.999 $\mu\text{S/cm}$. K = 0.01 cm^{-1} 0.00 ... 19.99 $\mu\text{S/cm}$. K = 0.1 cm^{-1}
Specific resistance	-	0.00 ... 20 M Ω cm
Cell constants	fixed: 0.475 cm^{-1} calibratable: 0.450 ... 0.500 cm^{-1} , 0.800 ... 0.880 cm^{-1}	fixed: 0.010 cm^{-1} calibratable: 0.450 ... 0.500 cm^{-1} , 0.800 ... 0.880 cm^{-1} adjustable: 0.090 ... 0.110 cm^{-1} , 0.250 ... 25.000 cm^{-1}
Salinity	0.0 ... 70.0 (acc. IOT)	0.0 ... 70.0 (acc. IOT)
TDS	-	0 ... 1999 mg/l. 0 bis 199.9 g/l
Temperature	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$
T _{ref}	20 $^{\circ}\text{C}$ /25 $^{\circ}\text{C}$	20 $^{\circ}\text{C}$ /25 $^{\circ}\text{C}$
Temperature Compensation	nLF	none. nIF. 0.000 ... 3.000 %/K

Handy case sets for field applications

The ProfiLine handhelds are available as single instruments in a case without measurement accessories, but also as sets supporting individual application requirements.

The case also serves as a small field laboratory.



Set in case

Ordering Information

Model	Description	Order No.
pH 3110 Set 2	Easy-to-operate, robust pH/mV-meter with large LCD-display, for mobile routine measurement. Meter in carry case with pH-sensor SenTix® 41, buffer solution STP 4 and STP 7, stand, beaker, short instruction manual, CD-ROM and batteries.	2AA112
Oxi 3205 Set 1	Easy-to-use, robust D.O. meter with backlit LCD graphic display, for routine measurement. Meter with carry case including galvanic D.O. probe CellOx® 325, cleaning solution, electrolyte, exchange membrane head, stand, beaker. Including short instruction manual, CD-ROM and batteries.	2BA101
Oxi 3310 Set 1	Professional, field proven D.O. meter with backlit graphic display for mobile applications including data logger and USB interface. Meter with carry case including galvanic D.O. probe CellOx® 325, cleaning solution, electrolyte, 3 exchange membrane heads, stand, beaker. Including short instruction manual CD-ROM, batteries, driver software for USB, cable.	2BA301
Cond 3110 Set 1	Easy-to-operate, robust conductivity meter with large LCD-display, for mobile routine application for 2- and 4-electrode cells. Meter with carry case including 2-electrode conductivity cell TetraCon® 325, standard solution 1413 µS/cm at 25 °C, stand, beaker, short instruction manual, CD-ROM and batteries.	2CA101
Cond 3310 Set 1	Professional, field proven conductivity meter with backlit graphic display for mobile applications including data logger, USB-interface. Meter with carry case including 4-electrode conductivity cell TetraCon® 325, standard solution 1413 µS/cm at 25 °C, stand, beaker, short instruction manual, CD-ROM and batteries, driver software for USB, cable.	2CA301
pH/Cond 3320 Set 2	Professional pH/conductivity meter with 2 inputs (DIN, 8 pin socket), backlit graphic display, for mobile application with data logger and USB interface, meter in carry case including SenTix® 41, TetraCon® 325, buffer solution STP 4 and STP 7, conductivity standard 0.01 mol/l KCl. Instruction manual, stand, beaker, CD-ROM, driver software for USB, batteries, cable.	2EA312
Multi 3320 Set 1	Professional pH/dissolved oxygen/conductivity meter with 2 inputs (DIN, 8 pin socket), backlit graphic display, for mobile application with data logger and USB interface, meter in field case with SenTix® 41, CellOx® 325, TetraCon® 325, sensor accessories, instruction manual. stand, beaker, CD-ROM, driver software for USB, batteries, cable.	2FA311
pH/ION 3310	Professional pH/mV/ISE meter with DIN socket, backlit graphic display, for mobile application with data logger and USB interface. Single instrument including instruction manual, CD-ROM and batteries, cable.	2GA310
SM Pro	SM Pro Rubber elastic armor for WTW handhelds	902 780

Xylem | 'zīləm|

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

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



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inoLab[®] 7000 Series

MEASUREMENT OF pH, ISE, CONDUCTIVITY AND DISSOLVED OXYGEN -
ACCURATE, COMPLIANT AND SENSITIVE



a xylem brand

inoLab® 7000 Series

Accurate. Compliant. Sensitive.

The inoLab® family: Advanced measuring technology offers new functions including automatic AutoRead or CMC (Continuous Measurement Control) making measurements more convenient and reliable than ever.

The user interface, large display and keypad with tactile feedback provide an exceptional user experience and error-free operation.

pH Cond

Accurate measurements ...

... with the inoLab® 7110 series.



pH Cond D.O. 

Compliant documentation ...

... with the inoLab® 7310 series.



pH ISE

Sensitive determinations ...

... with the inoLab® pH/ION 7320.



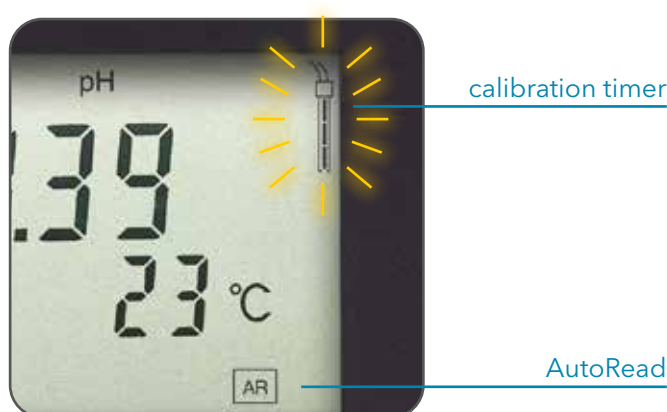
Accurate measurements ...

... with the inoLab® 7110 series.



inoLab® 7110 series

- AutoRead function ensures repeatable results
- Intuitive user interface
- Easy calibration including calibration timer



Meters for everyone who simply need accurate results.

The inoLab® 7110 series is perfectly suited for routine measurements in general laboratory applications. Whether measuring pH or conductivity in environmental, chemical, pharmaceutical, medical or food & beverage industries, this series offers advanced features in a simple to use package. The intuitive user interface and easy to clean housing and keypad are ideal for all environments.

Accurate measurements

The AutoRead function makes achieving repeatable results simple. The meter recognizes when a stable measurement value has been reached. Increased accuracy is ensured with the adjustable calibration timer reminding the user to calibrate periodically.

Easy to operate

The keypad offers intuitive operation and the large and clearly arranged display provides all necessary information at-a-glance.

All meters are available in application sets that include sensors, electrode stand and power supply.

Model	Description	Order No.
inoLab® pH 7110 SET 2	Easy-to-operate basic pH/mV benchtop meter with DIN socket for routine measurement. For AC and battery operation. Meter with universal power supply, stand and operation manual. Combined pH electrode SenTix® 41, buffer 4, 7 and 10.01, 3 mol/l KCl.	1AA112
inoLab® Cond 7110 SET 1	Easy-to-operate basic conductivity benchtop meter for routine measurement. For AC and battery operation. Set including conductivity cell. Meter with universal power supply, stand and operation manual. Incl. 4-electrode graphite conductivity cell TetraCon® 325,0,01 mol/l KCl conductivity standard.	1CA101

Compliant documentation ...

... with the inoLab® 7310 series.



inoLab® 7310 series

- USB interface for fast data transfer
- Data output via optional integrated printer



Complete data transfer in .csv format



Precision meters plus documentation

The 7310 series for the measurement of pH, conductivity or amperometric dissolved oxygen is designed for all applications in laboratories where documentation supporting AQA (Analytical Quality Assurance) and GLP (Good Laboratory Practice) is required. These meters offer all the features of the 7110 series plus additional documentation functions.

Documentation via USB

With the USB interface, the inoLab® 7310 easily connects to a PC for convenient transfer of current or stored data. An integrated data logger with adjustable intervals provides automatic recording of all measurement data. Date, time, and ID number supports GLP. Additionally, the user can enter the sensor serial number for complete documentation. All data can be transferred in an easy-to-process .csv format; an Addin tool for Microsoft® Excel supplied by WTW allows import of formatted measurement and calibration records directly into Excel spreadsheets.

Model	Description	Order No.
inoLab® pH 7310P BNC	Convenient, menu controlled pH mV meter for measurements/documentation according GLP/ AQA, with integrated thermal printer. Single meter with universal power supply, stand and operation manual. CD-ROM including software and USB cable.	1AA320P
inoLab® pH 7310 SET 4	Convenient, menu controlled pH mV meter for measurements/documentation according GLP/ AQA. Set including combined pH electrode. Meter with universal power supply, stand and operation manual. Combined pH electrode SenTix® 81, buffer 4, 7 and 10.01, 3 mol/l KCl, software and USB cable.	1AA314



Documentation via built-in printer

The inoLab® 7310P option offers a built-in printer for printing of measurement and calibration results on high quality paper with a readability of up to 7 years.

Convenient to operate

The graphic display is easy-to-read for convenient and secure operation – at a glance all critical information is presented.



CMC function

pH measurement

Data optimization is achieved with the new CMC function that monitors the calibration range and indicates if the measurement range is between calibration points.

All meters are available in application sets including sensors, electrode stand and power supply.

Model	Description	Order No.
inoLab® Cond 7310 SET 1	Precise and convenient conductivity meter, menu controlled, for measurements/documentation according GLP/AQA. For AC and battery operation. Set including conductivity cell. Meter with universal power supply, stand and operation manual. Incl. 4-electrode graphite conductivity cell TetraCon® 325, 0.01 mol/l KCl conductivity standard, software and USB cable.	1CA301
inoLab® Oxi 7310 SET 1	Professional dissolved oxygen meter, menu controlled, for measurements/documentation according GLP/AQA. Set including galvanic D.O. sensor. Meter with universal power supply, stand and operation manual, galvanical D.O. sensor CellOx® 325, polishing stripe, electrolyte, cleaning solution replacement cape, CD-ROM incl. software, USB cable.	1BA301

Sensitive determination ...

... with the inoLab® pH/ION 7320.



inoLab® pH/ION 7320

- Two channel Meter for simultaneous measurement of pH, ion concentration or ORP
- Built-in incremental methods
- CMC for monitoring the measurement range at pH



pH

ISE

Two channels for special tasks:

The inoLab® pH/ION 7320 is a modern two channel pH/mV/ISE benchtop meter for fast, precise and secure determination of pH, ORP and ion concentrations. When measuring pH the built-in CMC function provides secure measurement by visual comparing of calibration and measurement range.

Sensitive determination of ion concentration

Users of ion sensitive measurement functions can select between the 2 to 7 point direct potentiometry and various incremental methods. The meter can measure with half cells and separate reference electrode as well as with combined ISE electrodes. A user selectable AutoRead criterion enhances the accuracy of the measurement results. All results can be transferred via the built-in USB interface or the optional built-in printer.

Model	Description	Order No.
inoLab® pH/ION 7320 BNC	Precise, menu controlled pH/mV/ISE benchtop meter, with two BNC inputs, for measurements/documentation according GLP/AQA. Meter with universal power supply, stand and operation manual, software and USB cable.	1GA340
inoLab® pH/ION 7320P BNC	Precise, menu controlled pH/mV/ISE benchtop meter, with two BNC inputs, for measurements/documentation according GLP/AQA with integrated thermal printer. Meter with universal power supply, stand and operation manual, software and USB cable.	1GA340P

Technical Data

(All values ± 1 digit)

Model	inoLab® pH 7110	inoLab® pH 7310 inoLab® pH/ION 7320	inoLab® Oxi 7310	inoLab® Cond 7110	inoLab® Cond 7310
Temperature compensation	Automatic/manual	Automatic/manual	Automatic	Automatic/none	Automatic/none
Calibration points	1 to 3	1 to 5 pH 2 to 7 ISE	1	1	1
Calibration records	1	10	10	1	10
Calibration timer	•	•	•	•	•
Memory entries	-	500/5000*	500/5000*	-	500/5000*
Interface	-	Mini USB-B	Mini USB-B	-	Mini USB-B
GLP/AQA supporting	-	•	•	-	•
Display	LCD	backlit b/w graphic	backlit b/w graphic	LCD	backlit b/w graphic
Printer option	-	•	•	-	•
Additional	-	CMC, input serial number of sensor	input serial number of sensor	-	input serial number of sensor
Power supply	Battery or universal power supply	Battery or universal power supply	Battery or universal power supply	Battery or universal power supply	Battery or universal power supply

* manual/automatic

Model	inoLab® pH 7110	inoLab® pH 7310	inoLab® pH/ION 7320
pH	-2.0 ... 20.0 ± 0.1 pH -2.00 ... 20.00 ± 0.01 pH -2.000 ... 19.999 ± 0.005 pH	-2.0 ... 20.0 ± 0.1 pH -2.00 ... 20.00 ± 0.01 pH -2.000 ... 19.999 ± 0.005 pH	-2.0 ... 20.0 ± 0.1 pH -2.00 ... 20.00 ± 0.01 pH -2.000 ... 19.999 ± 0.005 pH
mV	± 1200.0 mV ± 0.3 mV $\pm (2000 \pm 1)$ mV	± 1200.0 mV ± 0.3 mV $\pm (2500 \pm 1)$ mV	± 1200.0 mV ± 0.3 mV $\pm (2500 \pm 1)$ mV
ISE (mg/l, μ mol/l, mg/kg, ppm, %)	-	-	0.000 ... 9.999 10.00 ... 99.99 100.0 ... 999.9 1000 ... 999999
Temperature	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$
CMC	-	yes	yes

Model	inoLab® Cond 7110	inoLab® Cond 7310
Conductivity	0.00 ... 1000 mS/cm ± 0.5 % of value 0.000 ... 1.999 $\mu\text{S/cm}$, $K = 0.01$ cm^{-1} 0.00 ... 19.99 $\mu\text{S/cm}$, $K = 0.1$ cm^{-1}	0.00 ... 1000 mS/cm ± 0.5 % of value 0.000 ... 1.999 $\mu\text{S/cm}$, $K = 0.01$ cm^{-1} 0.00 ... 19.99 $\mu\text{S/cm}$, $K = 0.1$ cm^{-1}
Resistivity	0.00 ... 199.9 M Ωcm	0.00 ... 199.9 M Ωcm
Cell constants	fixed: 0.01 cm^{-1} with calibration: 0.450 ... 0.500 cm^{-1} , 0.800 ... 0.880 cm^{-1} adjustable: 0.090 ... 0.110 cm^{-1} 0.250 ... 2.500 cm^{-1}	0.01 cm^{-1} 0.450 ... 0.500 cm^{-1} , 0.800 ... 0.880 cm^{-1} 0.090 ... 0.110 cm^{-1} 0.250 ... 25.000 cm^{-1}
Salinity	0.0 ... 70.0 (acc. IOT)	0.0 ... 70.0 (acc. IOT)
TDS	1 ... 1999 mg/l	1 ... 1999 mg/l, 0 ... 199.9 g/l
Temperature	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$
T_{ref}	20 $^{\circ}\text{C}$ /25 $^{\circ}\text{C}$	20 $^{\circ}\text{C}$ /25 $^{\circ}\text{C}$
Temperature compensation	none, nIF, 0.000 ... 3.000 %/K	none, nIF, 0.000 ... 10.000 %/K

Model	inoLab® Oxi 7310
Dissolved Oxygen Concentration*	0.00 ... 20.00 mg/l ± 0.5 % of value 0 ... 90 mg/l ± 0.5 %
Saturation*	0.0 ... 200.0 % ± 0.5 % of value 0 ... 600 % ± 0.5 of value
Partial pressure*	0 ... 200.0 hPa, 0 ... 1250 hPa ± 0.5 % of value
Temperature	0.0 ... 50.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$
Built-in pressure sensor	yes

* depends on D.O. sensor

Xylem | 'zīləm|

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

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



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