



# SenTix<sup>®</sup> pH Electrodes

ALWAYS THE RIGHT CHOICE



a xylem brand



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# pH Measurement with SenTix<sup>®</sup> Electrodes

The **measuring principle** of all SenTix<sup>®</sup> electrodes is always the same. The electrodes consist of a measuring electrode and a reference electrode.

The measuring electrode is made of a special glass, sensitive to hydrogen ions, and filled with a buffer solution with pH 7. The reference electrode consists of an Ag/AgCl element embedded in a reference electrolyte. Immersion in a measuring solution causes a **change in voltage at the measuring electrode compared to the reference electrode.**

This voltage change is recorded as an analog signal and **converted into pH by the measuring instrument, ultimately a voltmeter.**

**With the IDS system, the conversion already takes place in the sensor head.** The value is transmitted as a digital signal either via cable or via radio to the IDS terminal device. The meter serves as displaying unit and controller.

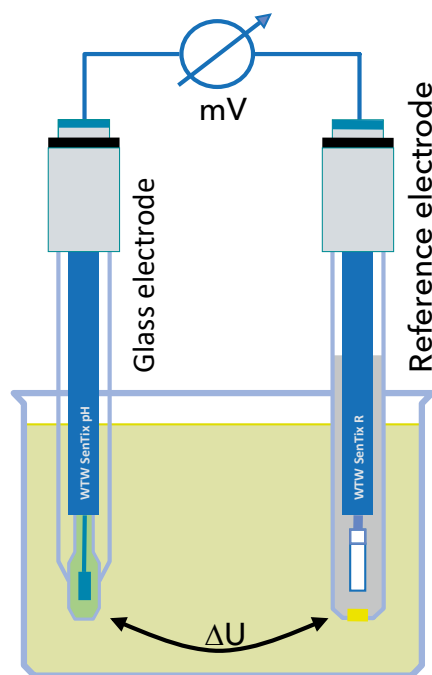
## Potentiometry

The **pH combination electrode** is the combination of a pH glass electrode and a reference electrode. To clarify the principle, the electrodes are shown separately in the adjacent drawing.

Because of the very weak mV signals, the voltage measurement must be made via a high-impedance amplifier.

The measured **voltage difference  $\Delta U$**  between the electrodes **is a function of the pH value of the sample.**

$$\Delta U = U_{\text{Glass}} - U_{\text{Ref}} = f(\text{pH})$$

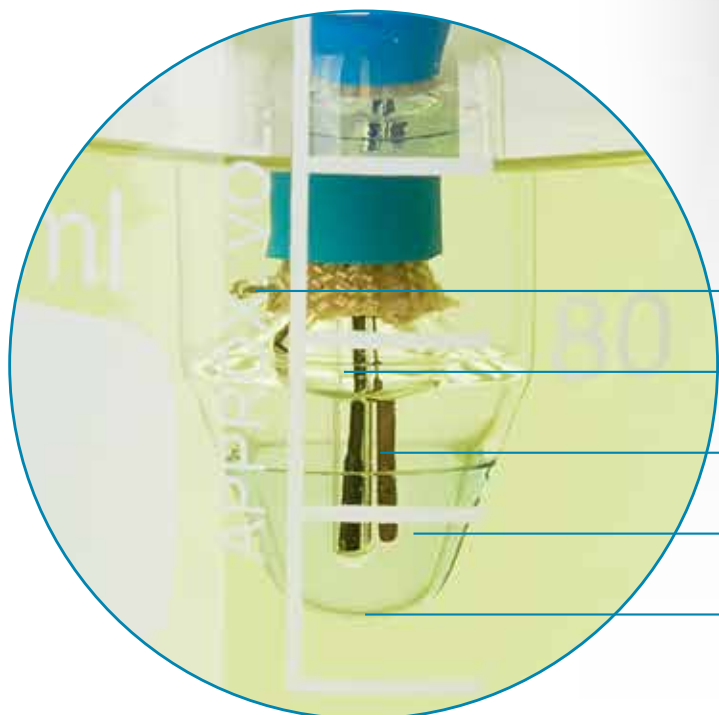


# Design of a pH combination electrode

Refill opening with slider

Reference electrolyte

Reference element



Diaphragm

Temperature sensor

Inner reference element

Inner buffer

Glass membrane



# SenTix® Electrodes – Analog or Digital

## High performance guaranteed

- Analog and digital models are based on **the same, proven SenTix® quality electrodes.**
- Low-resistance membrane glasses guarantee **stable measurement signals even at low temperatures.**
- Silver ion-free reference electrolyte in combination with the unique platinum wire diaphragm **prevents measurement problems caused by precipitating silver compounds.**
- Functional slider for opening and safely closing the refill opening of liquid electrolyte electrodes.

## Analog SenTix® pH electrodes

- Device connection via fixed cable (1 meter or 3 meters) with waterproof DIN or BNC plug, or via S7 plug head.
- The conversion of the raw signal into pH takes place in the meter. For connection we offer different options.



## Digital SenTix® IDS pH electrodes

- Conversion of analog measurement signals into digital values directly in the sensor **prevents interference and guarantees fail-safe data transmission.**
- **Cables up to 100 m length** available.
- The IDS electrodes are **available with fixed cable or plug head.**
- **Cables of different lengths or wireless modules** can be connected to the plug head.
- Automatic transmission of **sensor serial number and calibration record** of the sensor increase data integrity.
- Comprehensive support for **GLP-compliant data acquisition.**
- Universal plug for **connection to any IDS portable or lab instrument** for flexible use on site or in the lab.



# Cable, Plug Head, Wireless Module

## Flexible sensor connections

- The IDS electrodes are **available with fixed cable or with plug head connections.**
- Versatile: A **connection cable** from 1.5 m to 100 m in length or a **wireless module** with a range of up to 10 m can be connected to the plug head.
- Wireless operation allows physical separation: measuring at the sample and documenting at the workplace.
- Secure 1:1 connection.
- Great flexibility due to universal applicability of the remove double space for different IDS sensors.
- Transfer of **measurement data and metadata** via IDS-Gate, **directly into a database or into a LIMS system.**







Signal LED

Button for starting and saving the measurement

IDS WLM-S wireless module

Universal plug head

Sensor head

Refill opening for electrolyte solution (only pH electrodes with liquid electrolyte)




Sensor shaft

IDS WLM-M wireless module



# Low-maintenance pH Electrodes with Gel Electrolyte

## Analog SenTix® electrodes

Model	SenTix® 20	SenTix® 21	SenTix® 21-3	SenTix® 22	SenTix® 41	SenTix® 41-3	SenTix® 42
Order no.	103630	103631	103632	103633	103635	103636	103637
Type/usage	Low-maintenance gel electrolyte pH electrodes with robust plastic shaft, for routine measurement in the lab and field						
							
pH measuring range	0 ... 14 pH				0 ... 14 pH		
Temperature range	0 ... 80 °C				0 ... 80 °C		
Reference electrolyte	Gel				Gel		
Membrane shape	Cylindric				Cylindric		
Membrane resistance	< 1 GΩ (at 25 °C)				< 1 GΩ (at 25 °C)		
Diaphragm	Fiber				Fiber		
Shaft material	Plastic				Plastic		
Shaft length	120 mm ± 2 mm				120 mm ± 2 mm		
Shaft diameter	12 mm ± 0.5 mm				12 mm ± 0.5 mm		
Temperature sensor	–				integrated NTC (30 KΩ)		
Connection	S7 plug head	Fixed cable			Fixed cable		
Electrode cable	AS/DIN, AS/DIN-3 or AS/BNC (not included in delivery)	Cable length 1 m	Cable length 3 m	Cable length 1 m	Cable length 1 m	Cable length 3 m	Cable length 1 m
Device side connector	DIN or BNC plug	DIN plug	DIN plug	BNC plug	DIN and banana plug (for the temperature sensor)		BNC and banana plug (temp. sensor)

# For water, wastewater and aqueous samples

Ideal for **portable measurement**, but also for routine measurement in the laboratory; with or without built-in temperature sensor.

All electrodes have a **low-maintenance gel reference system** and robust plastic shafts; the SenTix® 945 has a glass shaft.









## Digital SenTix® IDS electrodes

Model	SenTix® 940	SenTix® 940-3	SenTix® 940-P	SenTix® 945	SenTix® 945-P
Order no.	103740	103741	103760	103743	103764
Type/usage	Low-maintenance IDS gel electrolyte pH electrodes with robust plastic shaft, <b>ideal for mobile measurement</b>			Low-maintenance, fast responding gel electrolyte pH electrode <b>for the lab</b> ; with glass shaft and three ceramic diaphragms	
					
pH measuring range	0 ... 14 pH			0 ... 14 pH	
Temperature range	0 ... 80 °C			0 ... 80 °C	
Reference electrolyte	Gel			Gel	
Membrane shape	Cylindric			Spheric	
Membrane resistance	< 1 GΩ (at 25 °C)			< 600 MΩ (at 25 °C)	
Diaphragm	Fiber			3 x Ceramic	
Shaft material	Plastic			Glass	
Shaft length	120 mm ± 2 mm			120 mm ± 2 mm	
Shaft diameter	12 mm ± 0.5 mm			12 mm ± 0.5 mm	
Temperature sensor	NTC 30 kΩ			NTC 30 kΩ	
Connection	Fixed IDS cable 1.5 m	Fixed IDS cable 3 m	Exchangeable IDS cables 1.5 ... 100 m wireless modules	Fixed IDS cable 1.5 m	Exchangeable IDS cables 1.5 ... 100 m wireless modules

# Precise pH Electrodes with Liquid Electrolyte

## Analog SenTix® electrodes

Model	SenTix® 51	SenTix® 52	SenTix® 60	SenTix® 61	SenTix® 62	SenTix® 81	SenTix® 82	SenTix® 91
Order no.	103651	103652	103660	103640	103641	103642	103643	103695
Type/usage	Robust liquid electrolyte electrodes with plastic shaft and ceramic diaphragm, for mobile measurement		Precision liquid electrolyte electrodes with glass shaft and platinum wire diaphragm, for the laboratory					
								
pH measuring range	0 ... 14 pH		0 ... 14 pH			0 ... 14 pH		0 ... 14 pH
Temperature range	0 ... 80 °C		0 ... 100 °C			0 ... 100 °C		0 ... 100 °C
Reference electrolyte	KCl 3 mol/l, Ag <sup>+</sup> free		KCl 3 mol/l, Ag <sup>+</sup> free			KCl 3 mol/l, Ag <sup>+</sup> free		KCl 3 mol/l, Ag <sup>+</sup> free
Membrane shape	Cylindric		Conic			Conic		Spheric
Membrane resistance	< 1 GΩ (at 25 °C)		< 600 MΩ (at 25 °C)			< 600 MΩ (at 25 °C)		< 600 MΩ (at 25 °C)
Diaphragm	Ceramic		Platinum wire			Platinum wire		Platinum wire
Shaft material	Plastic		Glass			Glass		Glass
Shaft length	120 ± 2 mm		120 mm ± 2 mm			120 mm ± 2 mm		170 ± 2 mm
Shaft diameter	12 ± 0.5 mm		12 mm ± 0.5 mm			12 mm ± 0.5 mm		12 ± 0.5 mm
Temperature sensor	integrated, NTC (30 KΩ)		–			integrated, NTC (30 KΩ)		integrated, NTC (30 KΩ)
Connection	Fixed cable		S7 plug head	Fixed cable		Fixed cable		Fixed cable
Electrode cable	Cable length 1 m		AS/DIN, AS/DIN-3 or AS/BNC (not included)	Cable length 1 m		Cable length 1 m		Cable length 1 m
Device side connector	DIN and banana plug (for the temp. sensor)	BNC and banana plug (for the temp. sensor)	DIN or BNC plug	DIN plug	BNC plug	DIN and banana plug (for the temp. sensor)	BNC and banana plug (for the temp. sensor)	DIN and banana plug (for the temp. sensor)





# For demanding measurements in the laboratory

SenTix® electrodes with liquid electrolyte are characterized by **fast response, high precision and long service life.**

They can also be used in difficult samples and are **insensitive to stirring effects** thanks to their platinum wire diaphragms.







## Digital SenTix® IDS electrodes

Model	SenTix® 950	SenTix® 950-P	SenTix® 980	SenTix® 980-P
Order no.	103750	103761	103780	103762
Type/Application	Robust liquid electrolyte electrodes with plastic shaft and ceramic diaphragm, <b>for mobile measurement</b>		Precise liquid electrolyte electrodes with glass shaft and platinum wire diaphragm, <b>for the lab and demanding field measurement</b>	
				
pH measuring range	0 ... 14 pH		0 ... 14 pH	
Temperature range	0 ... 80 °C		0 ... 100 °C	
Reference electrolyte	KCl 3 mol/l Ag <sup>+</sup> -free		KCl 3 mol/l Ag <sup>+</sup> -free	
Membrane shape	Cylindric		Conic	
Membrane resistance	< 1 GΩ (at 25 °C)		< 600 MΩ (at 25 °C)	
Diaphragm	Ceramic		Platinum wire	
Shaft material	Plastic		Glass	
Shaft length	120 mm ± 2 mm		120 mm ± 2 mm	
Shaft diameter	12 mm ± 0.5 mm		12 mm ± 0.5 mm	
Temperature sensor	NTC 30 KΩ		NTC 30 kΩ	
Connection	Fixed IDS cable 1.5 m	Exchangeable IDS cables 1.5 ... 100 m, wireless modules	Fixed IDS cable 1.5 m	Exchangeable IDS cables 1.5 ... 100 m, wireless modules







# Specialists and Problem Solvers for all applications

Model	SenTix® H	SenTix® HW	SenTix® HWD	SenTix® Sp	SenTix® Sp-DIN
Order no.	103644	103650	103731	103645	103730
Type/usage	Special pH electrode with adjustable split ring diaphragm, for basic samples	Precision pH electrodes with adjustable split ring diaphragm; for measurement in samples with extreme ionic strength, emulsion and suspension		pH electrodes with spear-shaped membrane; for penetration measurements in semi-solid samples	
					
pH measuring range	0 ... 14 pH	0 ... 14 pH	0 ... 14 pH	2 ... 13 pH	
Temperature range	0 ... 80 °C	0 ... 60 °C	-5 ... 100 °C	0 ... 80 °C	
Reference electrolyte	KCl 3 mol/l, Ag <sup>+</sup> -frei			Polymer	
Membrane shape	Cylindric	Cylindric	Spheric	Spear	
Membrane resistance	< 2 GΩ (at 25 °C)	< 800 MΩ (at 25 °C)	< 600 MΩ (at 25 °C)	< 400 MΩ (at 25 °C)	
Diaphragm	Ground joint	Ground joint	Ground joint	Hole	
Shaft material	Glass	Glass	Glass	Glass	
Shaft length	170 ± 2 mm	170 ± 2 mm	170 ± 2 mm	65/25 ± 2 mm	
Shaft diameter	12 ± 0.5 mm	12 ± 0.5 mm	12 ± 0.5 mm	15/5 ± 0.5 mm	
Temperature sensor	–	–	integr. NTC (30 KΩ)	–	
Connection	S7 plug head	S7 plug head	Fixed cable	S7 plug head	Fixed cable
Electrode cable	AS/DIN, AS/DIN-3 or AS/BNC (not included)	AS/DIN, AS/DIN-3 or AS/BNC (not included)	Cable length 1 m	AS/DIN, AS/DIN-3 or AS/BNC (not included)	Cable length 1 m
Device side connector	DIN or BNC plug	DIN or BNC plug	DIN and banana plug (for the temp. sensor)	DIN or BNC plug	DIN plug




# Analog SenTix® electrodes for special applications

The **texture of samples** in which pH is measured are **highly diverse** – liquid or solid, low in ions or highly concentrated, aqueous and non-aqueous phases, with and without solid content. Sometimes the smallest volumes have to be determined. All this can be easily managed with the SenTix® specialists.



Model	SenTix® Sur	SenTix® Mic	SenTix® Mic-D	SenTix® Mic-B	SenTix® RJD
Order no.	103646	103647	103660	103661	103732
Type/usage	Surface electrode; <b>for pH measurement on smooth surfaces</b> (paper, film material, gel culture media) and on solids	Micro pH electrodes <b>for measurement in small and very small volumes</b>			pH electrode with split ring diaphragm and polymer electrolyte; <b>for pH measurement in contaminated samples</b>
					
pH measuring range	2 ... 13 pH	0 ... 14 pH	0 ... 14 pH	0 ... 14 pH	2 ... 13 pH
Temperature range	0 ... 50 °C	0 ... 100 °C	-5 ... 100 °C	-5 ... 100 °C	0 ... 80 °C
Reference electrolyte	KCl 3 mol/l, Ag <sup>+</sup> -frei				Polymer
Membrane shape	Flat	Cylindric	Cylindric	Cylindric	Calotte
Membrane resistance	< 1 GΩ (at 25 °C)	< 700 MΩ (at 25 °C)	< 1 GΩ (at 25 °C)	< 1 GΩ (at 25 °C)	< 600 MΩ (at 25 °C)
Diaphragm	Split ring	Ceramic	Platinum wire	Platinum wire	Split ring
Shaft material	Glass	Glass	Glass	Glass	Glass
Shaft length	120 ± 2 mm	40/80 ± 2 mm	96 ± 2 mm	96 ± 2 mm	120 ± 2 mm
Shaft diameter	12 ± 0.5 mm	12 ± 0.5 mm	3 ± 0.5 mm	3 ± 0.5 mm	12 ± 0.5 mm
Temperature sensor	–	–	–	–	integr. NTC (30 KΩ)
Connection	S7 plug head	S7 plug head	Fixed cable	Fixed cable	Fixed cable
Electrode cable	AS/DIN, AS/DIN-3 or AS/BNC (not included)	AS/DIN, AS/DIN-3 or AS/BNC (not included)	Cable length 1 m		Cable length 1 m
Device side connector	DIN or BNC plug	DIN or BNC plug	DIN plug	BNC plug	DIN and banana plug (for the temp. sensor)









# Digital Specialists and Problem Solvers

Model	SenTix® Micro 900	SenTix® Micro 900-P	SensoLyt® 900-P
Order no.	103751	103765	103748
Type/usage	Micro pH electrodes for measurement in small volumes		Pressure-resistant pH electrode with polymer electrolyte for depth measurement (for the MPP 930 depth probe)
			
pH measuring range	0 ... 14 pH		0 ... 12 pH
Temperature range	0 ... 100 °C		0 ... 60 °C
Reference electrolyte	KCl 3 mol/l Ag <sup>+</sup> -free		Polymer
Membrane shape	Cylindric		Cylindric
Membrane resistance	< 700 MΩ (at 25 °C)		< 600 MΩ (at 25 °C)
Diaphragm	Platinum wire		Pinhole
Shaft material	Glass		Glass
Shaft length	65/130 mm		120 mm
Shaft diameter	12/5 mm		12 mm
Temperature sensor	NTC 30 KΩ		NTC 30 KΩ
Connection	Fixed IDS cable 1.5 m	Exchangeable IDS cables 1.5 ... 100 m, wireless modules	Exchangeable IDS cables 1.5 ... 100 m, wireless modules

# Digital SenTix® IDS electrodes for special applications

Special samples require special electrodes. Small volumes, different properties, unusual composition: our WTW® specialists are real problem solvers.



Model	SenTix® HW-T 900	SenTix® HW-T 900-P	SenTix® Sp-T 900	SenTix® Sp-T 900-P
Order no.	103753	103767	103752	103766
Type/usage	Precision pH electrodes with adjustable split ring diaphragm; for measurement in samples with extreme ionic strength, emulsion and suspension		pH electrodes with spear-shaped membrane; for insertion measurements in semi-solid samples	
	 	 	 	 
pH measuring range	0 ... 14 pH		2 ... 13 pH	
Temperature range	0 ... 60 °C		0 ... 80 °C	
Reference electrolyte	KCl 3 mol/l Ag <sup>+</sup> -frei		Polymer	
Membrane shape	Cylindric		Spear	
Membrane resistance	< 600 MΩ (at 25 °C)		< 400 MΩ (at 25 °C)	
Diaphragm	Split ring		Hole	
Shaft material	Glass		Glass	
Shaft length	170 mm		65/25 mm	
Shaft diameter	12 mm		15/5 mm	
Temperature sensor	NTC 30 KΩ		NTC 30 KΩ	
Connection	Fixed IDS cable 1.5 m	Exchangeable IDS cables 1.5 ... 100 m, wireless modules	Fixed IDS cable 1.5 m	Exchangeable IDS cables 1.5 ... 100 m, wireless modules

# Applications

Our pH electrodes are optimized for measurement in aqueous systems. In addition, there is the possibility to also measure samples of a different consistency. The following table shows which electrode is best suited to which application.

	SenTix® ...											
	20 21-... 22	41 41-3 42 RJD 940(-P)	51 52 950 950-P	60 61 62	81 82 980(-P) 945(-P)	91	H	HW HWD HW-T 900(-P)	Sp Sp-DIN Sp-T 900(-P)	Sur	Mic MIC-D MIC-B Micro 900(-P)	ORP** ORP-T 900(-P)**
● recommended by WTW												
○ can be used for this application												
* only recommended for the mentioned model												
Aquarium water	●	●	●	○	○	○						ORP...*
Beer			●	●	●			●				ORP...*
Beverages				●	●	●		○				
Bleaching lye			○	○	○	○	●	○				
Boiler feed water				○	○	○		●				
Bread									●			
Cheese (punch possibly necessary)									●			
Coffee extract			○	●	●	●		●				
Condensate								●				
Cosmetics								●	●	●		
Diluted acids				●	●	●		○				ORP...*
Diluted alkalis							●					
Dispersion colors		RJD*						●				
Distilled water								●				
Drinking water	○	○	●	●	●	●		○				
Electroplating waster water	●	●	○	○	○	○		○				○
Fruit									●			
Fruit juice			●	●	●	●		○				
Fruit juice			●	●	●	●		○				
Fully demineralized water								●				
Galvanic baths		RJD*	●	●	●	●		○				●
Groundwater	●	●	○	○	○							●
H2S-containing liquids		RJD*						●				ORP-900T
Household cleaners	○	○	○	●	●	●	●	○				
Leather										●		
Lemonade			●	●	●	●		○				
Measurement in Eppendorf or NMR vessels											●	
Meat (punch possibly necessary)									●			
Milk				●	●	●		●				
Mineral water	○	○	●	●	●	●		○				
Oil/water emulsions		RJD*						●				
Paints and coatings, water soluble		RJD*						●				
Paper										●		
Paper extract				●	●	●						
Protein-containing liquids				●	●	●		●			MIC-D/B* Micro 900*	
Rain water				○	○	○		●				
Saline solutions	○	○	○	●	●	●	○	●				ORP...*
Saliva										●	○	
Sausage (punch possibly necessary)									●			
Seawater				○	○	○	○	●				
Shampoo								●				
Skin										●		
Soil extract				●	●	●		●				
Solids (insertion)									●			
Solids (surface)										●		
Surface water	●	●	●	●	●	●		○				
Suspensions		RJD*						●				ORP...*
Swimming pool water	●	●	●	○	○	○						
Tris buffer solutions				●	●	●		●				
Vegetable juice			○	●	●	●		○				
Vegetables									●			
Waste water	●	●	○	○	○	○						ORP 900-T
Wine			○	●	●	●		●				
Yogourt				●	●	●		●	●			
	20 21-... 22	41 41-3 42 RJD 940(-P)	51 52 950 950-P	60 61 62	81 82 980(-P) 945(-P)	91	H	HW HWD HW-T 900(-P)	Sp Sp-DIN Sp-T 900(-P)	Sur	Mic MIC-D MIC-B Micro 900(-P)	ORP** ORP-T 900(-P)**

One-year warranty for material damages for all pH sensors as per § 10 Terms and Conditions.  
Not found your application? Just contact us by phone +49 881 183-321, or by e-mail [TechInfo.WTW@xylem.com](mailto:TechInfo.WTW@xylem.com).

\*\* for ORP measurement



# Buffer Solutions

Our buffer solutions are referenced against secondary standard reference material. . Common certificates document the respective uncertainty of the pH value of the solution.



## Buffer solutions in plastic bottles

- **Standard (DIN/NIST) buffer solutions** PL 2/4/7/9/12 (250 ml container)
- **Technical buffer solutions TEP** (1 litre), TPL (250 ml): precise and traceable to PTB/NIST, in two bottle sizes with built-in dosing vessel.

## Buffer solutions in glass ampoules

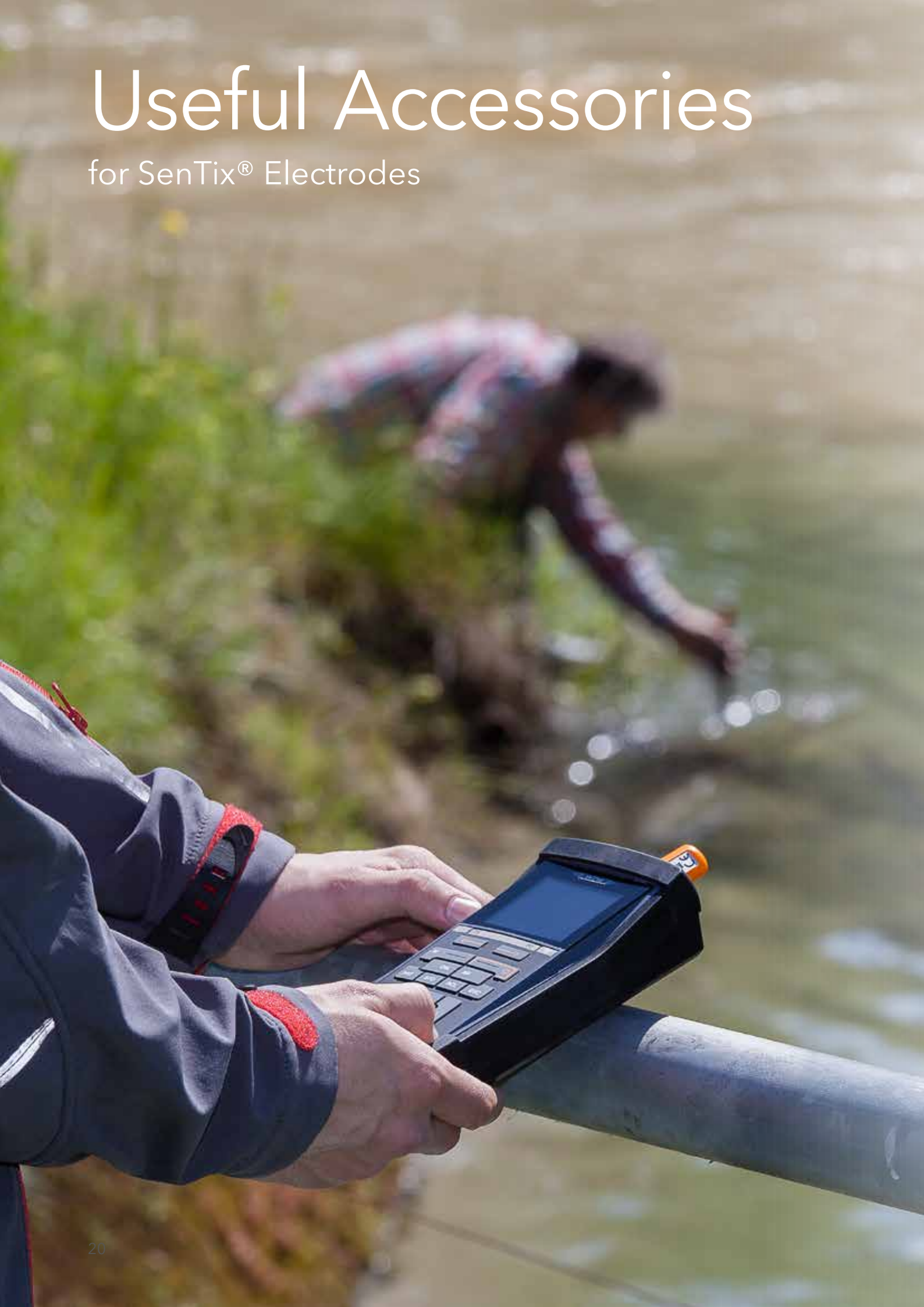
- **STAPL-4/7/9 precision DIN/NIST buffer** in ampoules with  $\pm 0.01$  pH accuracy
- **QSC (Quality Sensor Control):** With the QSC Kit consisting of three precision DIN buffers (pH 4.01, pH 6.87 and pH 9.18 with an accuracy of respectively  $\pm 0.01$  pH at 25 °C) in glass ampoules, an initial calibration can be carried out with IDS pH electrodes. Ideal for quality control: All following calibrations are compared with this calibration.

## Applicable buffers

		PL 4/7/9 DIN/NIST	STAPL 4/7/9 DIN/NIST	TEP 4/7 Trace	TEP 10 Trace	TPL 4/7 Trace	TPL 10 Trace
<b>Benchtop meters</b>							
<b>inoLab®</b>		●	●	●	●	●	●
<b>Portable meters</b>							
<b>ProfiLine</b>	pH 3110, pH 3210, pH 3310	●	●	●	●	●	●
	pH/Cond 3320, Multi 3320, pH/ION 3310	○	○	●	●	●	●
	pH 315i, pH 330i, pH 340i, pH/ION 340i	●	●	●	●	●	●
	pH/Cond 340i, pH/Oxi 340i, Multi 340i, Multi 350i,	○	○	●	●	●	●
<b>MultiLine®</b>	Multi 3410 IDS, Multi 3420 IDS, Multi 3430 IDS, Multi 3510 IDS, Multi 3620 IDS, Multi 3630 IDS	○	○	●	●	●	●

# Useful Accessories

for SenTix® Electrodes





## Field cases/Sets

The portable instruments are available in **various case sets** with accessories for immediate measurement. Depending on the equipment, the sets also include the SM Pro rubber housing and sensors.

## Armatures

- **Armor A pHLab/K:** For precision pH electrodes with 120 mm glass shaft; significantly reduces the risk of breakage during measurement in the process and in the field.
- **Armor A 925/K, A 925-P/K, A 925-P/S:** For tough field use of pressure-resistant IDS sensors with or without plug head.



## Flow-through vessel

**D3 Sen flow-through vessel:** For up to three IDS or conventional sensors; with ground bracket or for pole mounting. Ideal for pumping tests in the field.

## Cables

- **AS/IDS-x cable** for plug head sensors, lengths from 1.5 to 100 m.
- **ADA-S7 adapter cable** for connection of analog electrodes with S7 screw head to IDS plug sockets.



## IDS Wireless modules

**Wireless measurement** of pH/ORP, conductivity, dissolved oxygen or turbidity.





# Your Partner

## for Measuring Devices and Sensors

Take advantage of our service offers:

You are welcome to send us your measuring instruments or sensors for **service or inspection**.

### What are your advantages?

- You are in safe hands! Your measuring devices with sensors will be **checked by the manufacturer**, making sure that your measured values are correct when used properly!
- You will have a **manufacturer's certificate** for your customers and for authorities.
- **Questions from your staff**, which may arise, for example, when operating the measuring device/sensor, can be clarified by our experts.
- **Use our knowledge** and experience to optimize your measuring routine.

#### Repairs & Calibration

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# 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](http://www.xylem.com)



## Regional Sales Offices

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February 2023