



Wireless Multiparameter Probe

pH | Electrical Conductivity | ORP | Temperature



Experience unparalleled accuracy and expertise with our cutting-edge multiparameter probe

Welcome to the pinnacle of water quality assessment technology. Our innovative probe transcends conventional limitations, bringing together ISFET pH sensing, 4-electrode conductivity measurement, and ORP analysis in a single device.

Aimed at practiced professionals, this breakthrough promises to reshape your understanding of water and moisture analysis.

Multiparameter measurements in one device:

- ISFET pH/Electrical Conductivity/ORP/Temperature
- Wireless
- Glass-free
- Robust
- Dry storage
- Durable

All sensor probes include a replaceable, interchangeable sensor part for extra durability. The probe is wirelessly connected via Bluetooth to the app for setting configurations, acquiring, storing, and exporting all your measurement data.

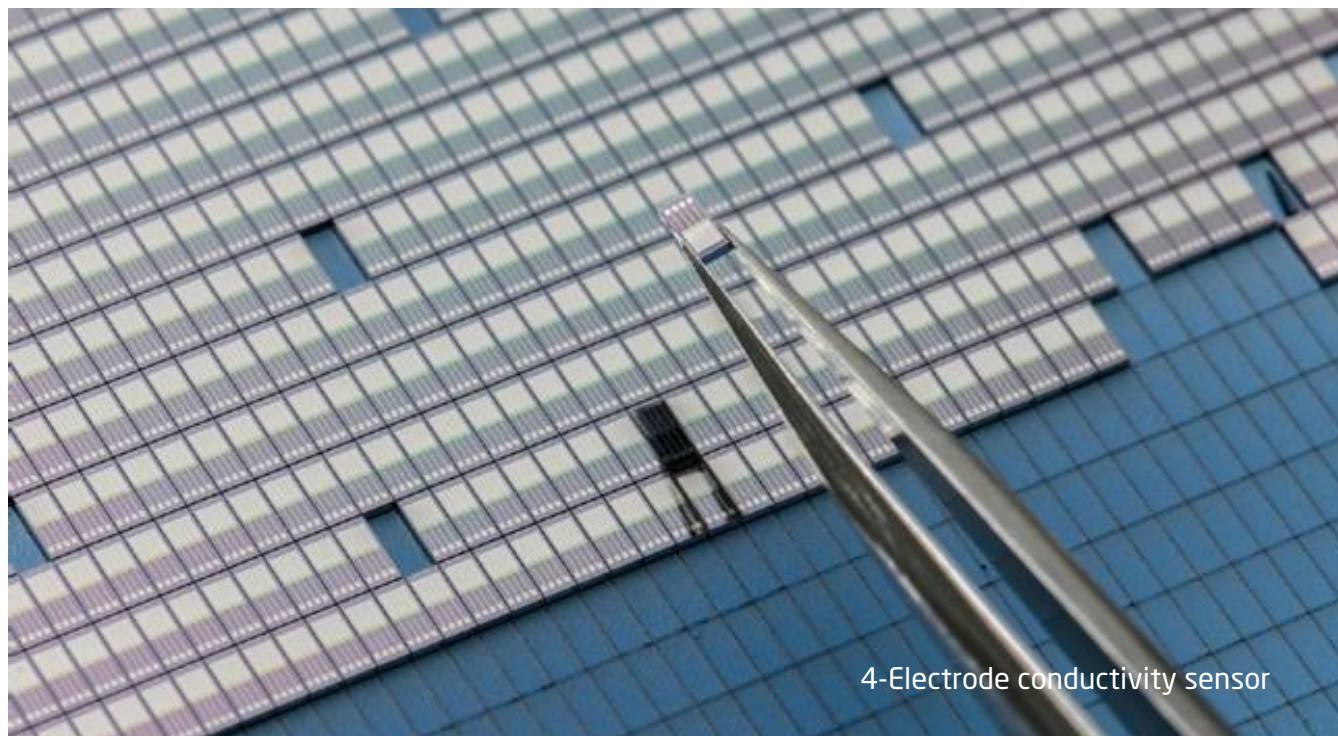
Three sensor tip options in different dimensions:

- pH/T sensor parts
- pH/EC/ORP/T sensor parts
- EC/T sensor parts



pH/Electrical Conductivity/ORP/Temperature multiparameter ConeFET probe





4-Electrode conductivity sensor

ISFET pH sensor

Experience the future of pH measurement with our robust ISFET technology. This sensor guarantees accurate readings in the most demanding applications. Precision and durability converge to supply pH readings in the harshest conditions, making fragile glass electrodes obsolete.

4-Electrode conductivity sensor

Dive into outstanding conductivity analysis with our advanced 4-electrode sensor. Minimize interference for precise results, elevating your understanding of water or moisture composition to new heights.

ORP monitoring

Unparalleled accuracy in ORP assessments is provided by the 4-electrode sensor, coupled with the versatile reference electrode compatible for ISFET measurements. This dual-functional system ensures reliable and precise results, catering to diverse analytical needs.

Cutting-edge sensors all in one device!
Wireless handheld multiparameter probe
connected to your smartphone

Bluetooth integration for data anywhere, anytime

Enter the realm of seamless connectivity. Sync the probe with your smart devices via Bluetooth, granting you extraordinary mobility and ease of access. For the accomplished practitioners who value swift data transfer and real-time monitoring, this feature is a game-changer. Our app is designed for seasoned professionals like you. Effortlessly visualize, analyze, and store data. Export for in-depth analysis or compliance reporting, all within a user-friendly interface.

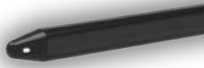
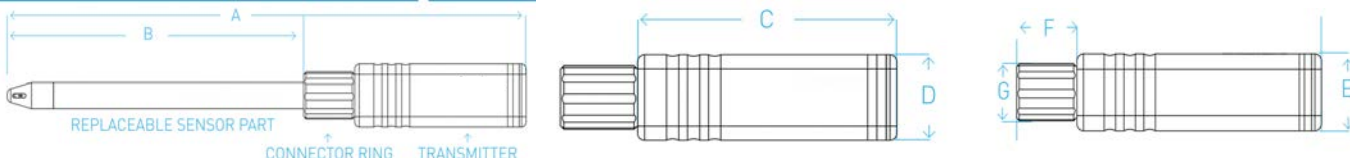
Protection with waterproof carry case

Indulge in the assurance of safeguarded equipment with our waterproof carry case, ensuring effortless transport and secure storage. Complete with a pre-drill stick for pilot holes and buffer set for initial pH calibration, this ensemble elevates precision. The NA36 interior is thoughtfully crafted, accommodating 2 probes, a pre-drill stick, toothbrush, tablet or smartphone, and the essential calibration buffer set. Additional room is allocated for the wireless probe charger, USB cables and other field necessities.



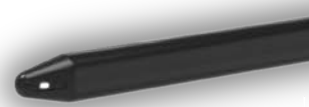
Waterproof carry case with ConeFET probe

pH/Temperature Probe Specifications

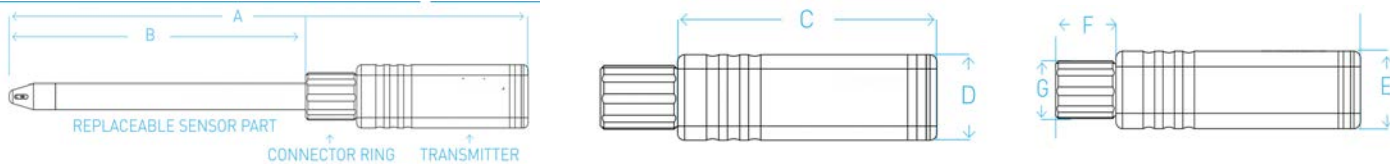
pH/T probe	ConeFET pH/T	CupFET pH/T	LanceFET pH/T	MicroFET pH/T	
Product order code	3380-100	3320-100	2370-100	9370-100	
General description					
	Robust general purpose pH/T probe	Probe for pH/T measurements of small volumes (~ 20 µl)	Steel tipped pH/T probe for easy penetration of firm samples (ex: meats, fruits, ground)	Laboratory pH/T probe of 3mm diameter that fits in tubes and mini cuvettes	
	General fluids (low viscosity)	✓	✓	✓	✓
	Semi fluids (low to medium viscosity)	✓	✓	✓	
	Pastes and semi solids (medium to high viscosity)	✓		✓	
Piercing applications (normal to medium force penetration)			✓		
General beakers and containers	✓	✓	✓	✓	
Small sample volumes (one drop ~20 µl)		✓			
Narrow vials / test tubes (as small as Ø 3 mm)				✓	
Probe properties	ConeFET pH/T	CupFET pH/T	LanceFET pH/T	MicroFET pH/T	
Connection	BLE (Bluetooth Low Energy) wireless connection to mobile device				
Compatibility	Compatible to the free Sentron app for Android, iOS and Huawei				
Status	RGB LED for status update / recognition to cloud-based application				
Data storage	Temporary data storage when mobile device is disconnected				
Mobile device minimal specs	Bluetooth 5.0				
Ingress protection	IP67 dust and waterproof				
Battery	Wireless chargeable battery				
Battery operation time	2-3 weeks				
Battery recharge time (wireless charger provided)	2 hours				
Operation & storage temperature	0-80 °C (32-176 °F)				
Operation & storage humidity	30%...80% relative humidity				
Probe Dimensions					
					
	ConeFET pH/T	CupFET pH/T	LanceFET pH/T	MicroFET pH/T	
Total length probe (A)	224 mm (8.8")	224 mm (8.8")	227.3 mm (8.9")	252 mm (9.9")	
Length replaceable sensor part (immersible) (B)	128 mm (5.0")	128 mm (5.0")	131.3 mm (5.2")	110 mm (4.3")	
Length x width x depth transmitter (C x D x E)	74 x 24.2 x 20 mm (2.9" x 1.0" x 0.8")				
Length x outer diameter connector ring (F x G)	22 x 18 mm (0.9" x 0.7")				
Materials transmitter / connector ring	ABS/PEEK				
Weight of complete probe	60 gr. (2.1 oz)	60 gr. (2.1 oz)	60 gr. (2.1 oz)	54 gr. (1.9 oz)	

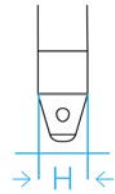
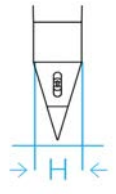
Replaceable pH/T sensor part	ConeFET pH/T	CupFET pH/T	LanceFET pH/T	MicroFET pH/T
Product order code	3380-005	3320-005	2370-005	9370-005
Physical properties				
Barrel diameter (H)	10 mm (0.4")	10 mm (0.4")	10 mm (0.4")	3 mm (0.1")
Length adapter (I)				48 mm (1.9")
Diameter adapter (J)				10 mm (0.4")
Materials tip / barrel	PEEK / ABS	PEEK / ABS	PEEK / ABS (stainless steel point)	PEEK / PEEK
Weight	18 gr. (0.6 oz)	18 gr. (0.6 oz)	18 gr. (0.6 oz)	12 gr. (0.4 oz)
pH	ConeFET pH/T	CupFET pH/T	LanceFET pH/T	MicroFET pH/T
Sensor	Glass-free Ion Sensitive Field Effect Transistor (ISFET) semiconductor			
Range	0-14 pH			
Accuracy	+/- 0.02 pH			
Resolution	0.01 pH			
Drift maximal (in pH7 @ 25°C)	0.14 pH/day			
Drift typical (in pH7 @ 25°C)	0.05 pH/day and lower			
Calibration	1, 2, 3 and 5-point calibration			
Automatic Temperature Compensated (ATC) calibration	Yes			
Calibration buffer types	Millar buffers, DIN, NIST, JIS			
Reference system	ConeFET pH/T	CupFET pH/T	LanceFET pH/T	MicroFET pH/T
Type	non-flow			
Reference solution	gelled KCl			
Diaphragm	porous PTFE	porous PTFE	porous PTFE	ceramic
Temperature				
Sensor	NTC			
Accuracy	1%			
Resolution	0.1 °C (0.1 °F)			
Range	0-80 °C (32-176°F)			
Application	ConeFET pH/T	CupFET pH/T	LanceFET pH/T	MicroFET pH/T
Application features	Cloud-based free, easy and intuitive application			
	Compatible to Android, Harmony OS and iOS			
	Calibration, acquisition, visualization, storage and export of measurement data			
	Up to 6 connectable probes for simultaneous wireless measurements			
	Real-time notifications whenever the pH value is out of reach			
	GPS location based pH map in Google maps			
	Language English, Dutch, Spanish, French, Chinese, Russian, Japanese, Swedish, Korean			
	Free downloadable in GooglePlay, Huawei App Gallery, AppStore.			

pH/EC/ORP/T Probe Specifications

pH/EC/ORP/T Probe	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
Product order code	3380-200	2370-200
General description	 Robust general purpose pH/EC/ORP/T probe	 Steel tipped pH/EC/ORP/T probe for easy penetration of firm samples (e.g. meat, fruits, ground)
General fluids (low viscosity)	✓	✓
Semi fluids (low to medium viscosity)	✓	✓
Pastes and semi solids (medium to high viscosity)	✓	✓
Piercing applications (normal to medium force penetration)		✓
General beakers and containers	✓	✓

Probe properties	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
See specification table of pH/T	The transmitter of the pH/EC/ORP/T probes is identical to the transmitter of the pH/T probes. All replaceable sensor parts can be attached to this transmitter.	

Probe Dimensions		
		
	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
Total length probe (A)	224 mm (8.8")	227.3 mm (8.9")
Length replaceable sensor part (immersible) (B)	128 mm (5.0")	131.3 mm (5.2")
Length x width x depth transmitter (C x D x E)	74 x 24.2 x 20 mm (2.9" x 1.0" x 0.8")	
Length x outer diameter connector ring (F x G)	22 x 18 mm (0.9" x 0.7")	
Materials transmitter / connector ring	ABS/PEEK	
Weight of complete probe	67 gr. (2.4 oz)	67 gr. (2.4 oz)

Replaceable pH/EC/ORP/T sensor part	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
Product order code	3380-205	2370-205
Physical properties		
Barrel diameter (H)	12 mm (0.5") (plan is to redesign to 10mm (0.4"))	12 mm (0.5") (plan is to redesign to 10mm (0.4"))
Materials tip / barrel	PEEK / ABS	
Weight	25 gr. (0.9 oz)	25 gr. (0.9 oz)

pH	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
See specification table of pH/T	The same ISFET pH sensor is applied	

Reference System	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
See specification table of pH/T	The same gel-filled reference chamber is applied	

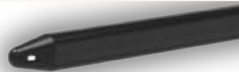
Electrical Conductivity (EC)	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
Sensor	4-electrode EC sensor	
Cell constant K (typical)	3.89 cm-1	
Range	50-111,800 µS/cm	
Accuracy within 1 %	50-12,880 µS/cm	
Accuracy within 10 %	50-111,800 µS/cm	
Resolution (50-12,880 µS/cm)	0.5 nS/cm	
Resolution (50-111,800 µS/cm)	50 nS/cm	
Drift typical (in 1,413 µS/cm EC standard @ 25°C)	2.5 µS/cm / day	
Calibration	at factory / 1-point calibration	
Automatic Temperature Compensated (ATC) calibration	Yes	
Calibration standards	Sentron calibration standards (500 µS/cm, 1,413 µS/cm, 12,880 µS/cm)	

Oxidation Reduction Potential	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
Range	-2,000 - +2,000 mV	
Accuracy	±0.2mV	
Resolution	0.1 mV	
Calibration	at factory	

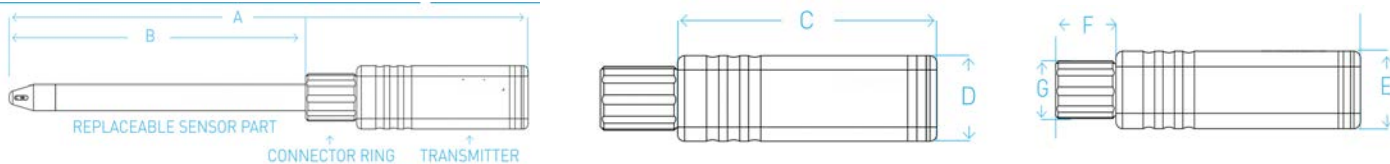
Temperature	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
See specification table of pH/T	The same NTC temperature sensor is applied.	

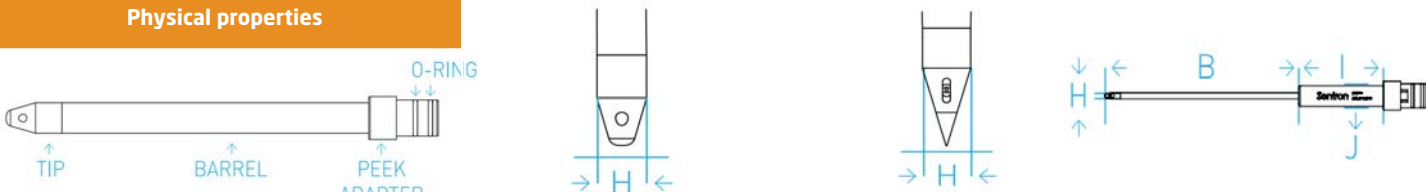
Application	ConeFET pH/EC/ORP/T	LanceFET pH/EC/ORP/T
See specification table of pH/T	The Sentron app recognizes the pH/T probes as well as the pH/EC/ORP/T probes and EC/T probes. All parameters are obtained simultaneously.	

EC/T Probe Specifications

EC/T probe	ConeFET EC/T	LanceFET EC/T	MicroFET EC/T
Product order code	3380-300	2370-300	9370-300
General description	 Robust general purpose EC/T probe	 Steel tipped EC/T probe for easy penetration of firm samples (e.g. meat, fruits, ground)	 Laboratory EC/T probe of 3 mm diameter that fits in tubes and mini-cuvettes
General fluids (low viscosity)	✓	✓	✓
Semi fluids (low to medium viscosity)	✓	✓	
Pastes and semi solids (medium to high viscosity)	✓	✓	
Piercing applications (normal to medium force penetration)		✓	
General beakers and containers	✓	✓	✓
Narrow vials / test tubes (as small as Ø 3 mm)			✓

Probe properties	ConeFET EC/T	LanceFET EC/T	MicroFET EC/T
See specification table of pH/T	The transmitter of the EC/T probes is identical to the transmitter of the pH/T probes. All replaceable sensor parts can be attached to this transmitter.		

Probe Dimensions			
			
	ConeFET EC/T	LanceFET EC/T	MicroFET EC/T
Total length probe (A)	224 mm (8.8")	227.3 mm (8.9")	264 mm (10.4")
Length replaceable sensor part (immersible) (B)	128 mm (5.0")	131.3 mm (5.2")	110 mm (4.3")
Length x width x depth transmitter (C x D x E)	74 x 24.2 x 20 mm (2.9" x 1.0" x 0.8")		
Length x outer diameter connector ring (F x G)	22 x 18 mm (0.9" x 0.7")		
Materials transmitter / connector ring	ABS/PEEK		
Weight of complete probe	63 gr. (2.2 oz)	63 gr. (2.2 oz)	57 gr. (2.0 oz)

Replaceable EC/T sensor part	ConeFET EC/T	LanceFET EC/T	MicroFET EC/T
Product order code	3380-205	2370-205	
Physical properties			
Barrel diameter (H)	12 mm (0.5") (plan is to redesign to 10mm (0.4"))	12 mm (0.5") (plan is to redesign to 10mm (0.4"))	3 mm (0.1")
Length adapter (I)			60 mm (2.4")
Diameter adapter (J)			11.5 mm (0.5")
Materials tip / barrel	PEEK / ABS	PEEK / ABS (stainless steel point)	PEEK/PEEK
Weight	21 gr. (0.7 oz)	21 gr. (0.7 oz)	15 gr. (0.5 oz)

Electrical Conductivity (EC)	ConeFET EC/T	LanceFET EC/T	MicroFET EC/T
Sensor	4-electrode EC sensor		
Cell constant K (typical)	3.89 cm-1		
Range	50-111,800 µS/cm		
Accuracy within 1 %	50-12,880 µS/cm		
Accuracy within 10 %	50-111,800 µS/cm		
Resolution (50-12,880 µS/cm)	0.5 nS/cm		
Resolution (50-111,800 µS/cm)	50 nS/cm		
Drift typical (in 1,413 µS/cm EC standard @ 25°C)	2.5 µS/cm / day		
Calibration	at factory / 1-point calibration		
Automatic Temperature Compensated (ATC) calibration	Yes		
Calibration standards	Sentron calibration standards (500 µS/cm, 1,413 µS/cm, 12,880 µS/cm)		

Temperature	ConeFET EC/T	LanceFET EC/T	MicroFET EC/T
See specification table of pH/T	The same NTC temperature sensor is applied.		

Application	ConeFET EC/T	LanceFET EC/T	MicroFET EC/T
See specification table of pH/T	The Sentron app recognizes the pH/T probes as well as the pH/EC/ORP/T probes and EC/T probes. All parameters are obtained simultaneously.		



The pH/Conductivity/ORP/T probe finds invaluable applications in a range of sectors

Enhanced efficiency

- Optimize your workflow with fast measurements, reducing the time required for the measurement process and allowing more time for in-depth data analysis.

Unparalleled longevity

- Break free from the limitations of delicate electrodes. Our probe's durability assures enduring performance, reducing downtime, and maximizing your investment.

Global expertise

- Designed with global expertise in mind, our device adapts to diverse water types and industries, enhancing your professional capabilities.

Agricultural advancements

- Empower your agricultural pursuits with precise pH and conductivity analysis. Nurture higher yields and superior crop quality through informed irrigation strategies.

Environmental excellence

- Become a water quality guardian. Ensure compliance in water treatment facilities and protect aquatic ecosystems with correct pH/Conductivity/ORP analysis tailored to your expertise.

Industrial prowess

- Precision is paramount in industries. Achieve best efficiency in manufacturing, chemicals, and pharmaceuticals with precise pH and ORP analysis.

Food and beverage prowess

- Perfect the art of flavor balance in the food and beverage industry. Achieve consistency in products like wine, beer, and juices by supporting precise pH levels.

Laboratory excellence

- Elevate your laboratory operations with unparalleled pH accuracy and reliable data collection. Ensure your experiments and research are based on precise measurements, setting the gold standard for excellence.

Aquatic achievement

- Elevate aquatic environments with exceptional water quality monitoring. Your expertise will shine as you keep pristine conditions for aquatic life.

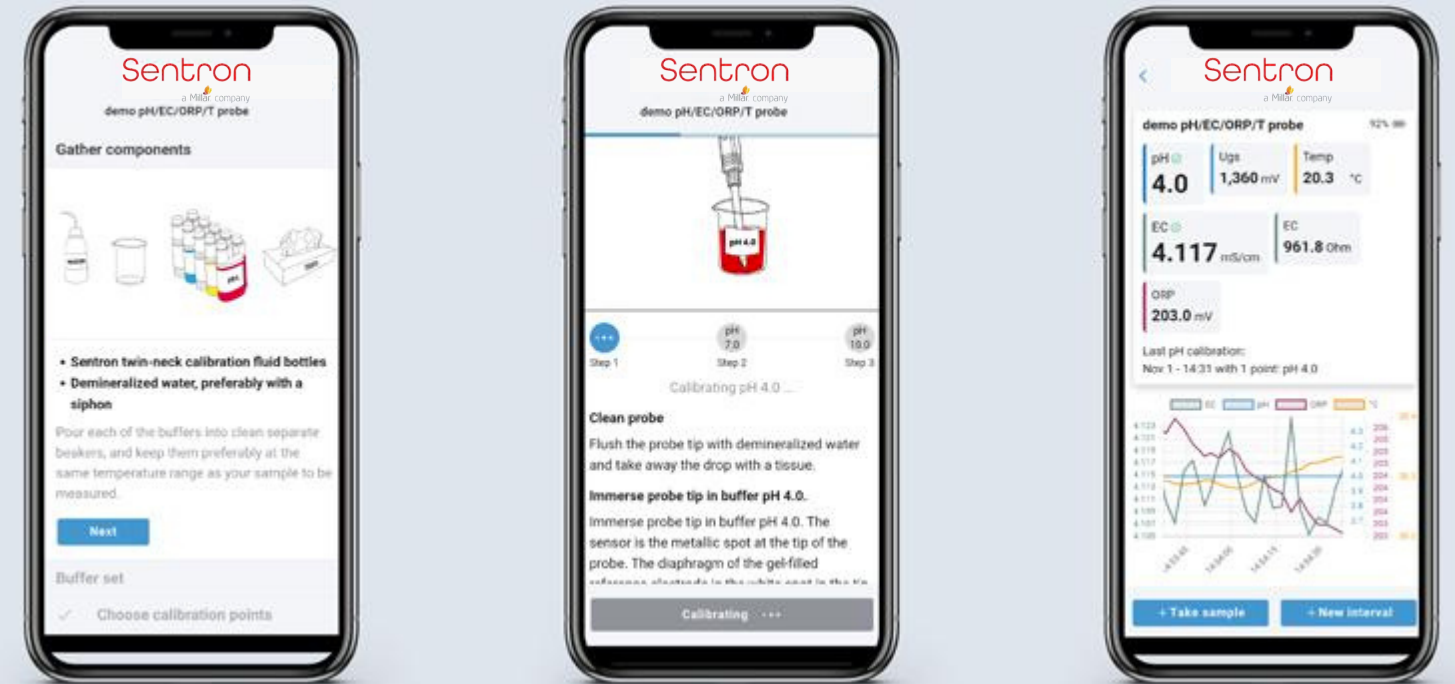


Industry package with ConeFET probe

Why choose the all-in-one multiparameter sensor probe?

- Enhanced efficiency: Save time and resources with rapid measurements and seamless data management.
- Unmatched accuracy: Trust in precise measurements for confident decision-making. Enhanced durability: Say goodbye to fragile glass probes, our silicon-based sensor
- technology stands the test of time.
- Cost-effective: Ditch fragile electrodes and high maintenance costs. Our probe ensures long-lasting performance and minimal downtime.
- Wide applicability: From industrial processes to research, we adapt to your needs.
- Global compatibility: Designed for B2B worldwide, our probe adapts to various market needs and sample types.

Complete control from the Sentron app

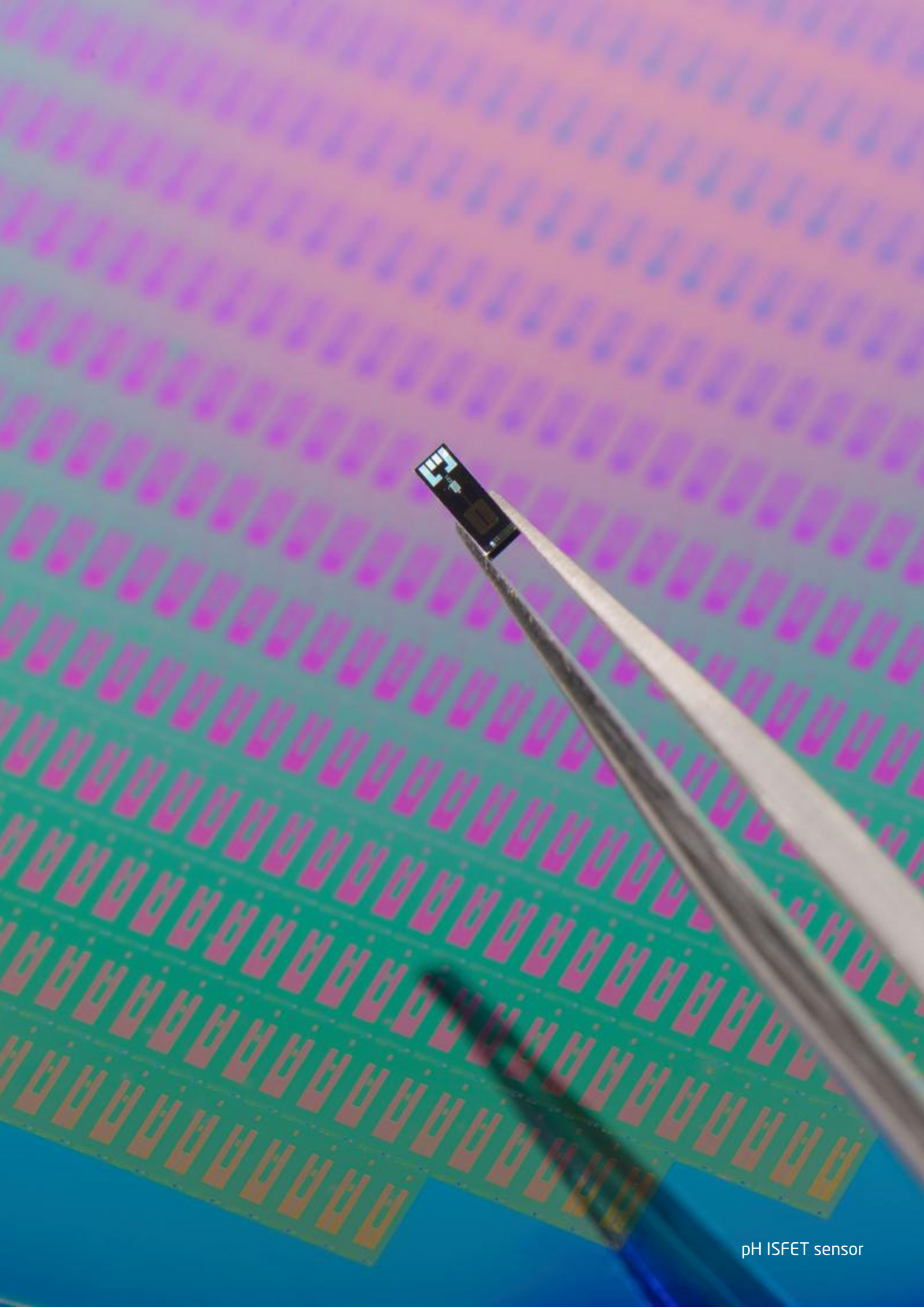


Laboratory package with ConeFET probe



The app is for free and available in the AppStore, GooglePlay and Huawei AppGallery.





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More Information

Sentron Europe B.V. is now proudly part of Millar, LLC. Founded as a spin-off of Johnson & Johnson, Sentron brings decades of expertise to Millar in the development and production of sensors.

At Millar, we are dedicated to pioneering sensor technologies that empower innovation in medical, life sciences, and beyond. Backed by decades of expertise in delivering cutting-edge sensor solutions, our mission is to advance scientific discovery through unparalleled accuracy, reliability, and precision in sensor technology.



pH ISFET sensor

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