

Revolutionize your measurements
with cutting-edge technology!

Multiparameter
pH/Conductivity/ORP/T probe
with Bluetooth connectivity



Experience unparalleled accuracy and expertise with our cutting-edge pH / Conductivity / ORP / Temperature 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.

Sentron's multiparameter probe
ISFET pH/EC/ORP/T all in one single device:

- 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 Sentron app for setting configurations, acquiring, storing, and exporting all your measurement data.

Three options in different dimensions:

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

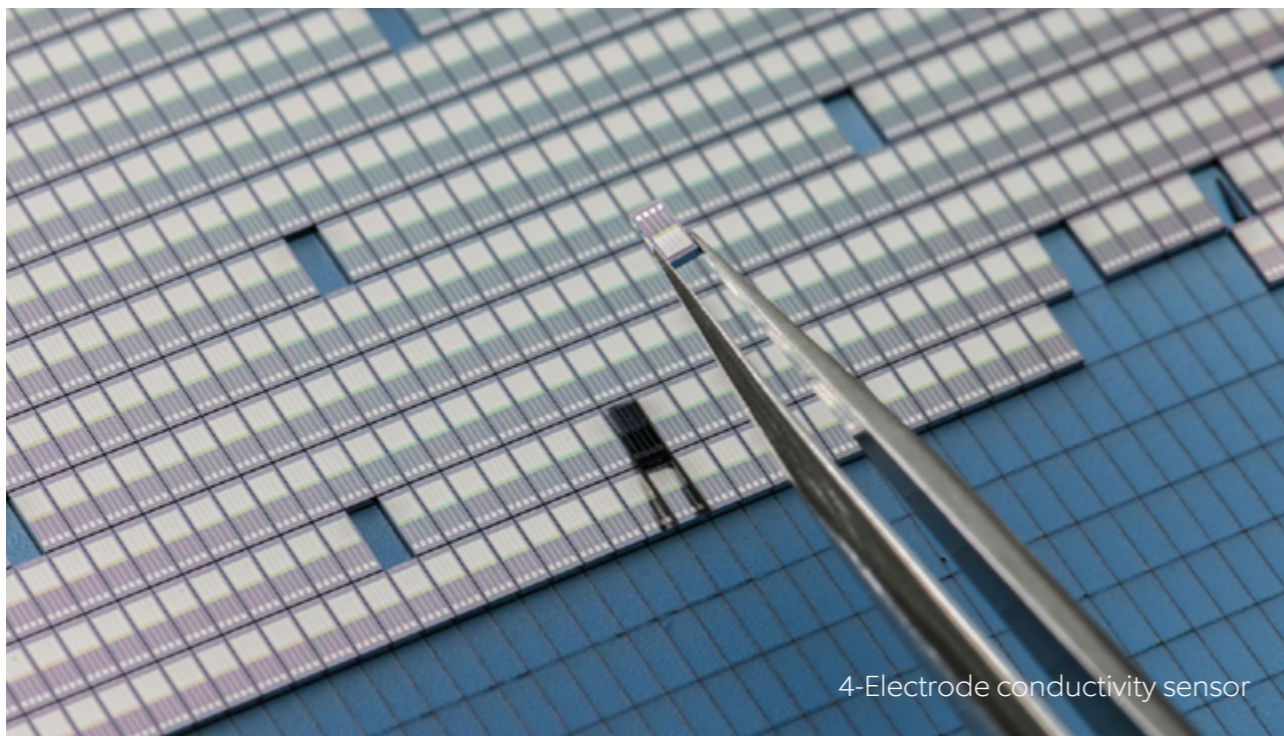
Interested? [Visit our webshop!](#)

Sentron



pH/Conductivity/ORP/T multiparameter ConeFET probe





4-Electrode conductivity sensor

ISFET pH sensor

Experience the future of pH measurement with our robust ISFET technology. Built for the knowledgeable, 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

Sentron

Seamless connectivity

Bluetooth integration - 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.

Intelligent app Interface

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.

Extra robustness 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.

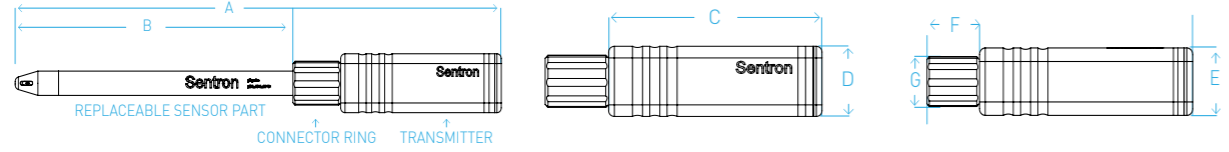
This resilient carry case is a valued inclusion in our turnkey solutions: the Agriculture, Industry, and Laboratory packages. Elevate your experience with this indispensable companion.



Waterproof carry case with ConeFET probe

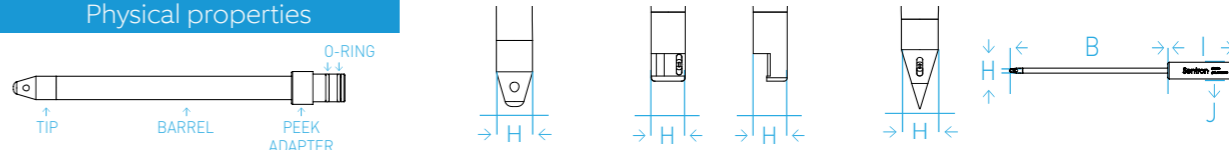
Specification pH/T probe

| 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 (e.g. meat, fruits, ground) | Laboratory pH/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 | ✓ | ✓ | ✓ | ✓ |
| 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 and storage temperature | 0...80 °C (32...176 °F) | | | |
| Operation and 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) |

Sentron

Specification pH/T probe

| 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 | pH 0.00... 14.00 | | | |
| 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 | Sentron 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 | ConeFET pH/T | CupFET pH/T | LanceFET pH/T | MicroFET pH/T |
|-------------|------------------------|-------------|---------------|---------------|
| Sensor | NTC | | | |
| Accuracy | 1% | | | |
| Resolution | 0.1 °C (0.1 °F) | | | |
| Range | 0...80 °C (32...176°F) | | | |

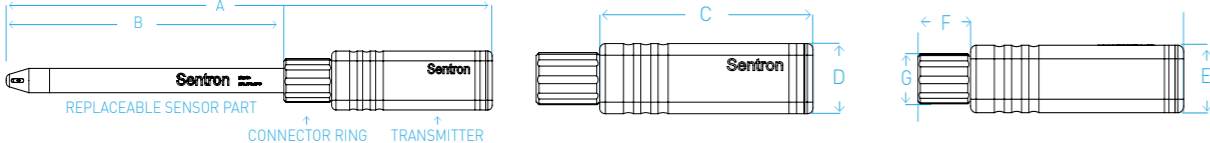
| Application | ConeFET pH/T | CupFET pH/T | LanceFET pH/T | MicroFET pH/T |
|----------------------|--|-------------|---------------|---------------|
| Application features | Cloud-based free, easy and intuitive application; Compatible to Android, Harmony OS and iOS; Calibration, acquisition, visualization, 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. | | | |

Sentron

Specification pH/EC/ORP/T probe

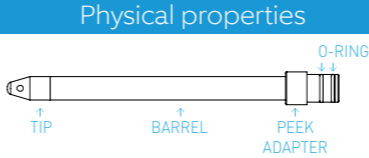
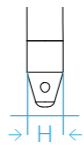
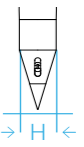
| pH/EC/ORP/T probe | ConeFET pH/EC/ORP/T | LanceFET pH/EC/ORP/T |
|--|--|----------------------|
| Product order code | 3380-200 | 2370-200 |
| General description | <div><p>Robust general purpose pH/EC/ORP/T probe</p></div> <div><p>Steel tipped pH/EC/ORP/T probe for easy penetration of firm samples (e.g. meat, fruits, ground)</p></div> | |
| 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 (FxG) | 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) |

Sentron

Specification pH/EC/ORP/T probe

| 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 | PEEK / ABS (stainless steel point) |
| 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. | |

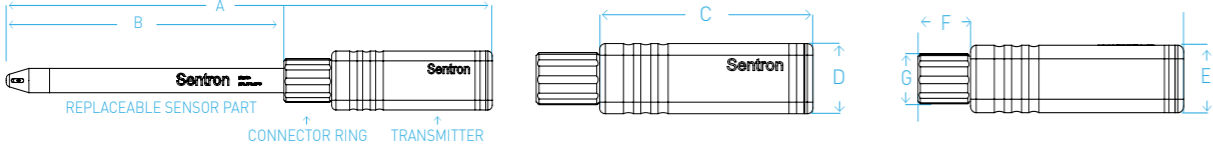
| Application | ConeFET pH/EC/ORP/T | LanceFET pH/EC/ORP/T |
|---------------------------------|--|----------------------|
| See specification table of pH/T | The Sentron app recognizes the pH/T probes as well as the pH/EC/ORP/T probes and EC/T probes. All parameters are obtained simultaneously. | |

Sentron

Specification EC/T probe

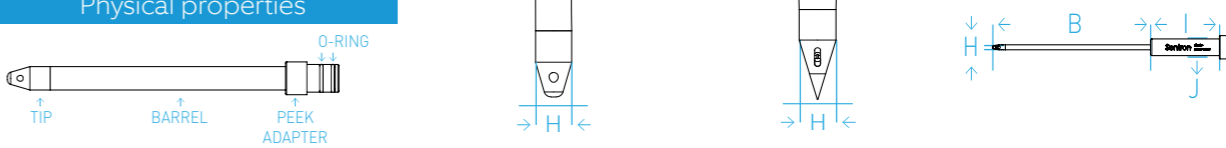
| EC/T probe | ConeFET EC/T | LanceFET EC/T | MicroFET EC/T |
|--|--|--|--|
| Product order code | 3380-300 | 2370-300 | 9370-300 |
| General description |  | | |
| |  Robust general purpose EC/T probe |  Steel tipped EC/T probe for easy penetration of firm samples (e.g. meat, fruits, ground) |  Laboratory 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 mm (8.9") | 264 mm (10.4") |
| Length replaceable sensor part (immersible) (B) | 128 mm (5.0") | 131 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 (FxG) | 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) |

Sentron

Specification EC/T probe

| Replaceable EC/T sensor part | ConeFET EC/T | LanceFET EC/T | MicroFET EC/T |
|------------------------------|---|--|-----------------|
| Product order code | 3380-305 | 2370-305 | 9370-305 |
| 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 | 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. | | |

Sentron



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

Agricultural advancements

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

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.

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.

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.

Industrial prowess

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

Aquatic achievement

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

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.

Highly advanced sensors supply great advantages.
The Sentron app is designed for seasoned professionals like you

Sentron

Interested? [🔗](#) Visit our webshop!



Industry package with ConeFET probe

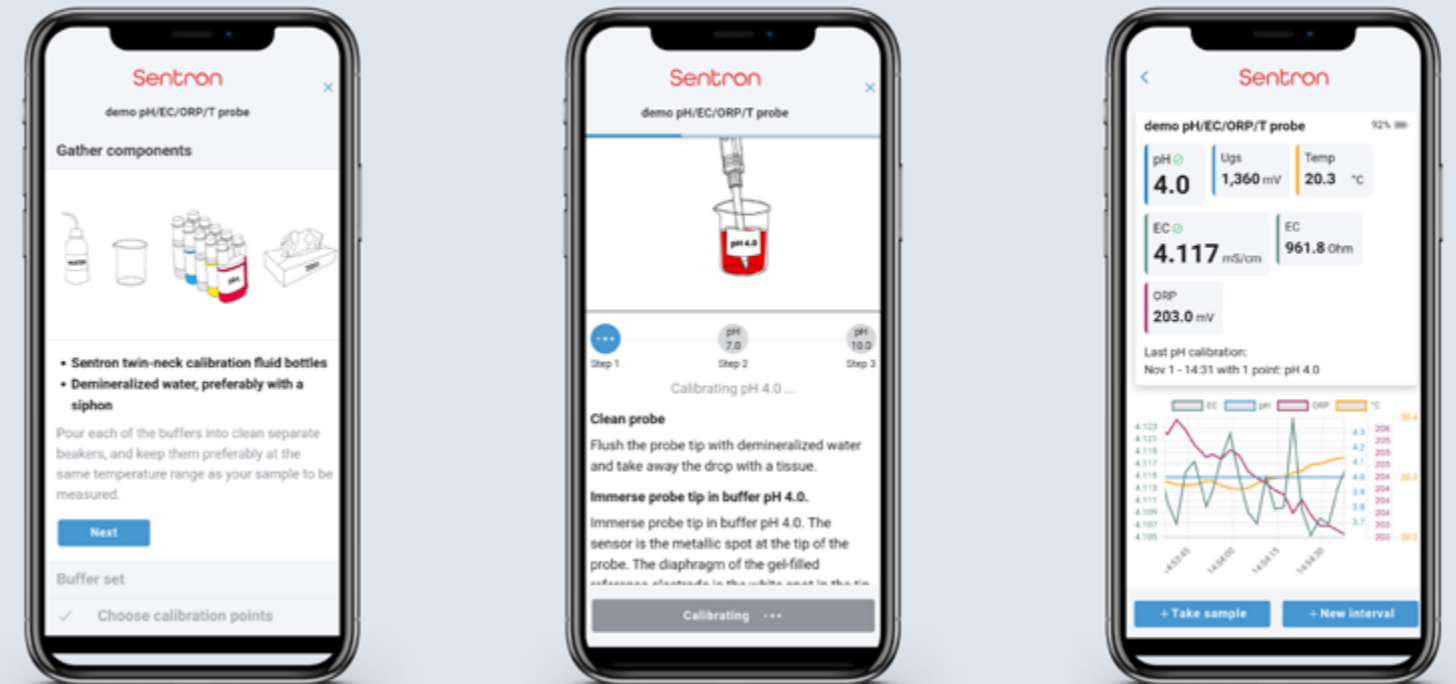
Why choose the all-in-one wireless sensor probe?

The Sentron pH/Conductivity/ORP/T probe is your best choice:

- 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.

Interested? [Visit our webshop!](#)

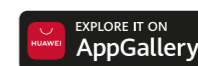
Complete control from the Sentron app



Laboratory package with ConeFET probe



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





Elevate your mastery of water and moisture analysis

Reach out to us today and embrace the future of precision
pH, conductivity, and ORP analysis like never before!

For inquiries, quotes, and orders, contact:

Address

Sentron Europe B.V.
Kamerlingh-Onnesstraat 5
9351 VD Leek
The Netherlands
info@sentron.nl
www.sentron.nl

More info

Sentron Europe B.V. is part of Millar. Originally Sentron is a spin-off of Johnson & Johnson. At Sentron, we develop and produce sensors in our inhouse semiconductor production facility. We have many years of experience and specific know-how in developing and producing sensors. We design and manufacture OEM sensor assemblies and complete products with our pH ISFET, 4-electrode EC and differential pressure sensors as well as with third party sensors.

 [See our leaflet](#) sensor integration services for these sensor integration solution services.

Sentron

pH ISFET sensor

Sentron

Sentron Europe BV, part of Millar