Sentron

www.sentron.nl

Keydiagnostics T: 02 8212 4074 F: 02 9423 6992 info@keydiagnostics.com.au www.keydiagnostics.com.au PO Box 1038, Gymea, NSW, 2227

ISFET pH Probe





pH is a critical parameter in many areas, for example: agriculture, horticulture, water environment, food industry, medical applications like gastro-enterology and life science research

Sentron's ISFET pH sensor probe

- Wireless
- Glass-free
- Robust
- Dry storage

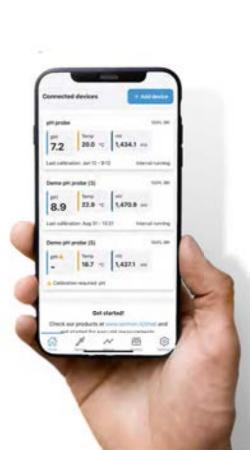
Sentron has developed a comprehensive line of wireless high-quality probes for glass-free pH measurements.

Sentron's ISFET pH sensor technology offers accurate and reliable pH measurements for various applications.

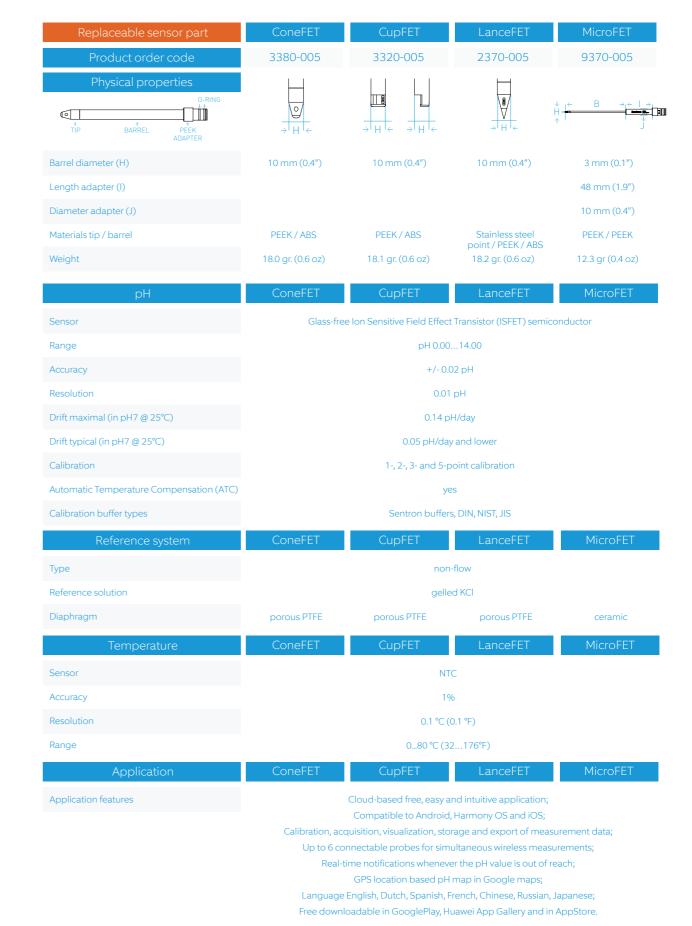
All pH probes include a replaceable and interchangeable sensor part for extra durability. It is wirelessly connected via Bluetooth to our Sentron app for setting configurations and for acquiring, storing and exporting all your measurement data.

Interested? <a>Interested? <a>Visit our webshop!!















Agriculture and Horticulture

Agriculture varies from the home gardener to horticulture with commercial greenhouses. They all have a common thread: they sustain the world. Testing, monitoring and adjusting growth parameters help to maximize efficiency, quality and production.

Healthy Soil

As the soil pH influences plant growth, the importance to check and adjust it is important for many market segments. To name a few: crop growth and fruit for the food market, hemp for the industrial and medical market, grass/ hay for the horse market. All of these are affected by a suboptimal soil pH. Thus checking and adjusting pH is of great importance.

Soil pH

Soil pH is a measurement of the acidity or alkalinity of the soil. Soil pH is a key factor in soil fertility and is important because it influences several soil factors affecting plant growth, such as nutrient availability, nutrient leaching, toxic elements, soil bacteria and soil structure.

Take the lab with you! Wireless handheld pH probe connected to your smartphone.

Sentron

Robust pH Measurements

In the field, pH is often measured in a slurry of soil mixed with distilled water. Thanks to its stainless-steel point at the tip, the LanceFET pH probe is perfectly suited for the measurement of soil pH. The more generally used ConeFET probe with its blunt tip can also be used by pre-drilling a pilot hole in the soil.

The positions of the ISFET and reference electrode have been designed to be clog and pollution resistant. The sensor can be easily cleaned with demineralized water and a soft toothbrush. This benefits the probe's performance and prolonged life.

Measurement of Plant Health

Agri pH package

For easy use, we have assembled a complete agriculture-package. This package is all you need for wireless, durable pH monitoring in the field. The use of a smartphone provides easy use of the app. Multiple probes can be connected to the app for simultaneous readings. The required buffer solutions and pre-drill stick complete the package. The carry case protects the equipment and provides easy carriage and storage.

Interested? I Visit our webshop!





Industrial

In many industries, pH is a critical parameter. These industries include food (e.g. meat, dairy beverage, wine and beer), pharmacy, textile and water treatment. pH testing during the manufacturing process can enhance production usability, accuracy and excellence.

Quality of Meat

Measuring the pH is common use in the meat industry and even obligatory in some countries.

Meat quality is determined by the muscle pH and its change in time, which in turn is strongly dependent on pre-slaughter conditions (i.e. stress) imposed on the animals. Too much stress can affect the taste and aroma of the meat.

Monitoring the pH of meat is important for quality control.

Indicator for Fish Freshness

pH is an indicator of freshness, which is fundamental to fish quality. A few hours after death, the glycogen in the muscle will be metabolized to lactic acid, causing a drop in pH. This drop in pH will contribute to an increased shelf-life of the fish and also to a good nutritional state of the fish. Alkaline bacterial metabolite production increases the pH and initiates fish spoilage. Hence, pH can be used as a measurement for quality and shelf life prediction in the fish marketing sector.

Glass Free and Wireless pH Probe: Ideal for Inline Food Processes

Sentron

Indicator of Dairy Food Quality and Safety

pH, together with temperature, ranks as the most important indicator of food quality and safety. pH is monitored at different stages of food processing to guarantee safety, improve production and enhance quality. Along with temperature, pH also determines the shelf-life of food.

In the milk industry, pH is a parameter for impurities or signs of infection. Higher pH values in fresh milk indicate udder infection (mastitis) and lower values indicate bacterial activity. In processes such as sterilization, pH is checked, since a lower pH value helps to

speed up the sterilization process.

Milk used for cheese manufacturing must be of excellent quality and its pH value determines whether the cheese will be soft or hard. pH is checked during cheese preparation, souring of milk and cream maturation. For example, during the production process of cheese, it is standard to monitor the pH value before the cheese goes into the brine bath. Therefore, it is an important measure for the quality of the end-product.

Industry pH package

For ease of use, we have developed an industry measurement package for pH measurements in your facility or other environments. The large screen of the tablet provides easy visualization of the app and the tablet case protects it against damages. The carry case is large enough to take all the required buffer solutions and pH probes with you. It provides easy carriage and storage and protects the equipment.

Interested? <a>Interested? <a>Visit our webshop!!



Laboratory

Whether you run a large-scale laboratory or whether you are in a classroom, the safety and integrity of your studies and instrumentation is of the utmost importance. The Sentron laboratory glass-free ISFET pH meter delivers precision while offering simplicity and versatility at the same time.

A Measure for Water Quality - Outdoor and in the Laboratory

Lab pH package

Look no further: we have the laboratory package. This complete benchtop package includes everything you need for wireless, durable pH monitoring in the laboratory. The tablet, held by a universal holder, provides easy use and visualization of the app on your lab table. The package contains a buffer solution set, so you can start immediately with your pH measurements.

Interested? <a>Interested? <a>Visit our webshop!!



Complete control from the Sentron app.



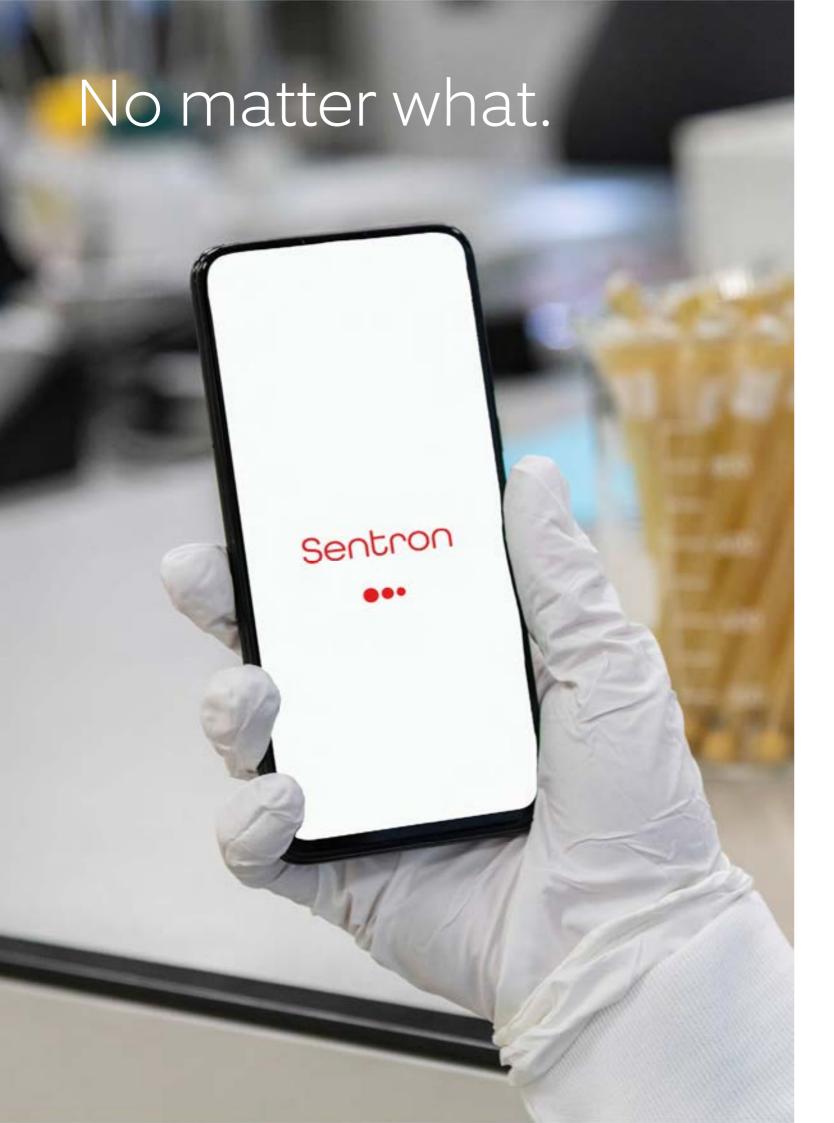


The app is for free and available in the AppStore, GooglePlay and Huawai AppGallery









Contact

Sentron Europe B.V. is a member of the Welling Group, together with Blue Medical Devices (Helmond, The Netherlands) and PendraCare (Leek, The Netherlands). Originally Sentron is a spin-off of Johnson & Johnson.

Address

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

More info

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 and pressure sensors as well as with third party sensors.

☑ See our leaflet sensor integration services for these sensor integration solution services.





Sentron Europe BV, a Welling Company