



### Steel tipped ISFET pH probe

Sentron offers a comprehensive line of high quality meters and probes for glass-free pH measurement. The SI meter and probe line is created around our proprietary ISFET pH sensor that offers accurate and reliable pH measurement for demanding applications.

The LanceFET pH probe, thanks to its stainless steel tip, is perfectly suited for piercing applications.

Two LanceFET versions are available: one with a regular slim handle for medium strength piercing applications, and one with a thick handle that can be used in those situations where more force is required. Applications for which Sentron's costumers use the LanceFET pH probes include food quality monitoring (e.g. meat, hard cheese and fruits) and testing of pastes and semi solids in chemical processes.

#### ISFET = glass-free

The LanceFET probe contains Sentron's non-glass ISFET (Ion Sensitive Field Effect Transistor) pH sensor. This sensing component is Sentron's proprietary design and has been improved continuously over the past 15 years.

In contrast to conventional glass pH electrodes, ISFET pH sensors are robust and do not require wet storage. This makes them well suited for many environmental, food and pharmaceutical applications. Even in areas like education or in laboratories, where glass pH electrodes can be used, ISFET pH measurement technology offers a much more durable and reliable solution.

#### Fast response time

ISFET pH sensors are fast because they measure directly at the surface. Sentron's SI series probes can give stable readings in less than 5 seconds for almost all samples.

#### Extremely robust

Sentron probes are built from high quality ABS, PVC and PEEK materials. They are resistant to many aggressive solutions and can withstand rugged use.

The probes have a polymer body snap-on type connector. Unlike DIN and bayonet type connectors, there are no moving parts nor screw thread that can be damaged.

The position of the ISFET and reference electrode has been designed to be clog and pollution resistant. In the event debris has accumulated on the sensor it can be easily cleaned with water and a brush.

Sentron probes are provided with protection against Electrostatic Discharge (ESD) ensuring measurements continue even in harsher electrostatic environments.

#### Easy handling

The ergonomic design makes the probe easy to hold. The LanceFET with a regular handle is light weight and easy to manipulate, while the LanceFET with enlarged handle provides a sturdy grip and solid feel.

#### Comprehensive probe line

The LanceFET is part of a comprehensive probe line that meets a broad range of pH measurement needs.

- ConeFET:** 3280-010 Robust general purpose probe.
- CupFET:** 3200-010 Probe for measurements of small liquid samples.
- LanceFET:** 2270-010 Steel tipped probe for penetration and measurement of non-liquids such as meat and fruit.
- LanceFET+H:** 2274-010 Equal to LanceFET but with large handle for additional grip.
- MiniFET:** 9202-010 Compact and sturdy probe with a 5mm (0.2") diameter barrel, ideal for embedded application.
- MicroFET:** 9270-010 Laboratory probe with a very small 3mm (0.1") diameter barrel that fits test tubes and mini-cuvettes.

### Highlights

- ISFET = glass-free
- Fast response time
- Extremely robust
- Easy handling

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