



Campbell Scientific's CS526 isolated pH probe makes reliable, accurate pH measurements in aqueous or semi-solid solutions. It can be submersed or inserted into tanks, pipelines, and open channels. This probe has a serial, TTL output that represents a 1 to 14 pH range.

The CS526 uses SENTRON's high-tech, Ion Sensitive Field Effect Transistor (ISFET) semi-conductor as its pH-sensitive element, and includes a silver/silver chloride - potassium chloride reference system. The ISFET technology is the most powerful pH monitoring technology available today. This technology considerably reduces the number of acidic or alkaline errors in extreme pH conditions. It allows the CS526 to monitor pH in liquids containing high solids, aggressive chemicals, or biological materials that would clog or contaminate the junction of the traditional glass-bulb pH probes.

The CS526's rugged design makes it suitable for just about any liquid pH-monitoring application, from laboratory to harsh field applications. Its electronics are safely embedded in a durable PEEK body. Elimination of the glass-bulb removes the possibility of broken glass, making the CS526 more rugged and safer to use.

## Features/Benefits

- » Innovative ISFET pH-sensing element used that makes better measurements in extreme pH conditions
- » No clogging or contamination of junction
- » Easily cleaned
- » More rugged than the traditional glass electrode pH probes allowing the CS526 to be deployed in the field for longer time periods
- » Compatible with our CR800, CR850, CR1000, and CR3000 dataloggers
- » Designed and manufactured under stringent quality control conditions in an ISO 9001 environment
- » Each sensor individually tested
- » CE compliant



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## Ordering Information

### pH Probe

**CS526-L** ISFET pH Probe with user-specified cable length. Enter length, in feet, after the -L. Must choose a cable termination option (see below).

#### Cable Termination Options (choose one)

- PT** Cable terminates in stripped and tinned leads for direct connection to a datalogger's terminals.
- PW** Cable terminates in a connector for attachment to a prewired enclosure.

### Solutions

- 25587** pH4 Buffer Solution (500 ml container). Two or more different buffer solutions are required for calibration.
- 25586** pH7 Buffer Solution (500 ml container). Two or more different buffer solutions are required for calibration.
- 25588** pH10 Buffer Solution (500 ml container). Two or more different buffer solutions are required for calibration.
- 16349** KCl solution used for cleaning (4 oz container)

### Accessories

- 7421** Split Mesh Cable Grip

## Specifications

- pH Range:** 1 to 14
- Power Requirements:** +5 Vdc
- Current Consumption:** 15 mA, maximum
- Output:** Serial TTL logic, no parity, one stop bit, 8 data bits, 2400 bps baud rate
- Operating Temperature:** 10° to 40°C
- Accuracy:** ±0.2 pH over 10° to 40°C
- 24 hr Drift:** <0.15 pH (after 15 minute soak in pH 7 at 25°C)
- Allowed Water Pressure:** 0 to 700 kPa (0 to 101.5 psi)
- Maximum Cable Length:** 100 m (328 ft)
- Cable Type:** three-twisted pair, 24-AWG cable with Santoprene® jacket
- Sensor Material:** polyaryletheretherketone (PEEK)
- Dimensions**
  - Length:** 10.2 cm (4 in.)
  - Diameter:** 1.6 cm (0.63 in.)
- Weight w/10 ft Cable:** 318 g (11.2 oz.)