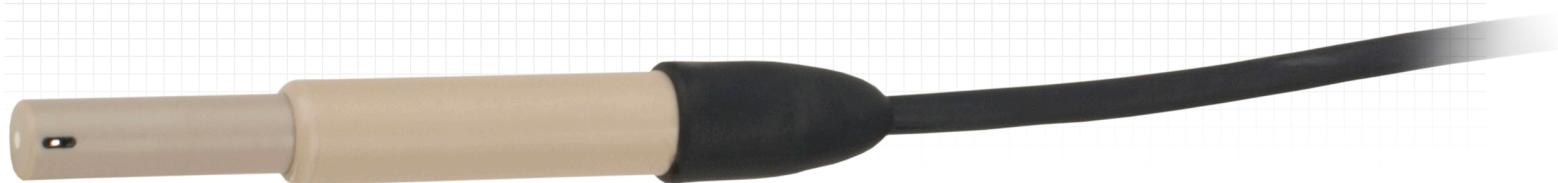


# More Durable, Safer

## Elimination of glass bulb allows longer time in field



### Overview

Campbell Scientific's CS526 isolated pH probe makes reliable, accurate pH measurements in aqueous solutions. It can be sub-

mersed or inserted into tanks, pipelines, and open channels. This probe has a serial, TTL output that represents a 2 to 12 pH range.

### Benefits and Features

- › Innovative ISFET pH-sensing element
- › Easily cleaned\*
- › More rugged than the traditional glass electrode pH probes
- › Each sensor individually tested
- › Compatible with Campbell Scientific's CR6, CR300, CR800, CR850, CR1000, and CR3000 dataloggers
- › Designed and manufactured under stringent quality control conditions in an ISO 9001 environment
- › CE compliant

### Technical Details

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 CS526's design allows it to be suitable for a variety

of liquid pH-monitoring applications. The 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.

*\*Campbell Scientific warranty does not cover a clogged reference diaphragm or improperly cleaned or maintained ISFET chip (see the Maintenance section in the operators manual for more information).*

# 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.

## Accessories

- 7421** Split Mesh Cable Grip

# Specifications

- › pH Range: 2 to 12
- › Power Requirements: 5 Vdc
- › Current Consumption: 15 mA maximum
- › Output: Serial TTL logic, 2400 bps, 8 data bits, no parity, 1 stop bit
- › Accuracy:  $\pm 0.2$  pH over 10° to 40°C
- › Operating Temperature Range: 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)
- › Length: 102 mm (4 in)
- › Diameter: 16 mm (0.63 in)
- › Weight w/10 ft Cable: 318 g (11.2 oz)

