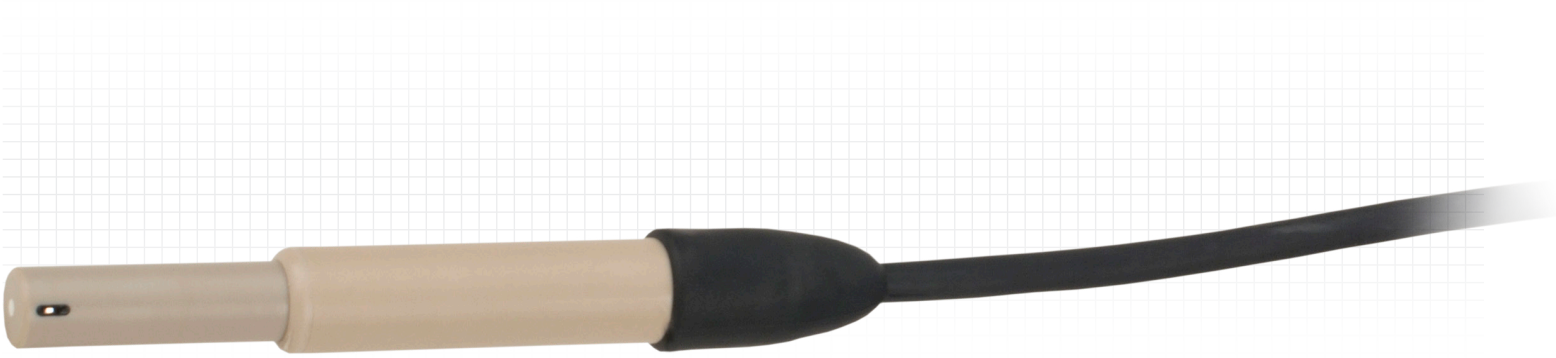
CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

CS526

Isolated ISFET pH Probe

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 submersed 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, 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: ±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)
- View EU Declaration of Conformity documentation at: www.campbellsci.com/cs526

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