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Cole-Parmer

INDUSTRIAL PH ELECTRODES

**SUPERIOR VALUE
COMPREHENSIVE SELECTION
UNSURPASSED CUSTOMER SUPPORT**



Cole-Parmer® Industrial pH Electrodes

COLE-PARMER PROVIDES A SINGLE-SOURCE SOLUTION FOR ALL OF YOUR INDUSTRIAL PH ELECTRODE NEEDS

COMPREHENSIVE SELECTION TO MEET ALMOST ANY REQUIREMENT!

- Cole-Parmer offers a full range of product—from economical, glass-bodied electrodes to durable, double-junction models and specialty probes for ultrapure water systems!
- All Cole-Parmer electrodes are available with or without Automatic Temperature Compensation (ATC) elements for compatibility with your current equipment
- Can't find the electrode you need? Contact our Application Specialists for assistance in selecting the best Cole-Parmer electrode for the job.

VALUE FROM A TRUSTED NAME!

- Reduce operational costs when you replace current electrodes with Cole-Parmer's top-of-the-line pH electrodes
- Save up to 25% over expensive brands without sacrificing quality
- Cole-Parmer-brand electrodes have been on the market for over 25 years
- All of our electrodes are backed by a six-month warranty against manufacturer defects



Cole-Parmer® Industrial pH Electrodes

ELECTRODES BUILT TO WORK WITH *YOUR* CONTROLLER!

- Cole-Parmer pH electrodes are compatible with the pH controller or transmitter you already have!
- Select from electrodes with BNC connectors and ATC-specific connectors to allow use with most major pH controller brands
- Provide the same performance at a fraction of the cost of high-priced electrodes
- Optional low-cost BNC-to-tinned-end adapter allows connection to controllers and transmitters with terminal strip connections for quick replacement of electrodes



Cole-Parmer® Industrial pH Electrodes

LET COLE-PARMER'S APPLICATION EXPERTS HELP YOU MAKE THE CORRECT ELECTRODE CHOICE—THE FIRST TIME, EVERY TIME!

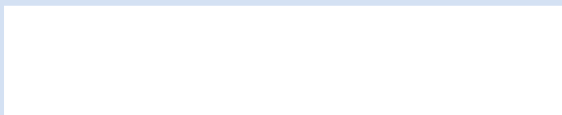
- Our Application Specialists have the experience necessary to ensure the electrode they recommend will be the correct electrode for the job. They have an outstanding 99.97% customer satisfaction on recommended products
- Our experts have working backgrounds in such diverse fields as chemistry, electrical, physics, environmental science, food & beverage, life science, pharmaceutical/biotech, and quality assurance
- In addition, each specialist receives extensive hands-on product training to keep up to date with the latest technologies and the products we sell
- Our specialists can also help troubleshoot your entire pH measuring system—including controller or transmitter, current electrode, and accessories—to ensure the accuracy and reliability of your results



For FREE technical applications assistance, call 800-323-4340 or visit www.coleparmer.com/tapps

TRY OUR ONLINE pH ELECTRODE PARAMETRIC SEARCH

Simply select your preferences for electrode type, specifications, and application, and this selection wizard will quickly return a list of electrode options that fulfill your requirements. Easy-to-use, fast, and available any time you need help!



Cole-Parmer® Industrial pH Electrodes

A COLE-PARMER ELECTRODE FOR EVERY APPLICATION!

½" GENERAL-PURPOSE ELECTRODES

deliver performance and savings for typical applications. Select exposed glass electrodes for general applications; select Tuff-Tip® models for in-line applications in which bulb damage may occur.

½" GENERAL-PURPOSE SIDE-MOUNT ELECTRODES

are gel filled for in-line installation at angles up to 90° from vertical. Select exposed glass bulbs for general applications; select Tuff-Tip electrodes for durability.

12-mm GLASS-BODIED ELECTRODES

are economical and efficient—buy a protective housing assembly, then simply replace the electrode as needed. Choose from general-purpose, high-accuracy, antimony, or ORP models with single or double junctions to suit virtually any in-line application. Models also available with stand-alone integrated housings for easier removal.

¾" FLAT-SURFACED ELECTRODES

have a flat surface to protect the pH bulb from damage and prevent buildup of solids on the measurement surface. Annular reference junction reduces reference cell fouling in tough applications. Install in-line or use in submersion applications.

Cole-Parmer® Industrial pH Electrodes

A COLE-PARMER ELECTRODE FOR EVERY APPLICATION!

¾" AND 1" SEMI-DOMED RUGGED ELECTRODES

are specially designed for demanding applications like wastewater. Semi-domed tip protects the pH bulb and keeps it free of debris to ensure a quick response despite harsh and dirty conditions. Annular reference junction reduces reference cell fouling; graphite-tipped models provide a solution ground to minimize electrical noise in the measurement system. Electrodes are threaded at both ends for either in-line or submersion applications. Models are available with ceramic or PTFE reference junctions for compatibility with your process solutions.

¾" ELECTRODES WITH PROBE GUARDS

allow a full-sized bulb for fastest response, but provide protection against damage during installation and operation. Order electrodes as single- or double-junction pH or ORP models for rapid response in environments where standard exposed bulbs would not survive. Electrodes are threaded at both ends for either in-line or submersion applications.

¾" SOLUTION GROUNDING ELECTRODES

are immune to electrical influences from improperly grounded electrical equipment, providing measurement and control you can trust. Select general-purpose models for typical measurement and control; high-salt models are available when you are measuring and controlling above pH 12 where sodium ion error interferes with general-purpose electrodes. Electrodes are threaded at both ends for either in-line or submersion applications.



Cole-Parmer® Industrial pH Electrodes

A COLE-PARMER ELECTRODE FOR EVERY APPLICATION!

SUBMERSIBLE ELECTRODES

are designed to take readings in open vessels that may have varying solution levels. To control your process, mount these three-foot-long probes with the bulb submerged in the solution but with the top remaining dry. ABS plastic housing protects electrode from damage due to contact with vessels or mixers that would ruin typical electrodes. Select single- or double-junction pH models, or double-junction ORP electrode.

HIGH-ACCURACY ELECTRODES

are specially formulated to minimize signal drift and maintain high accuracy, even in samples at high temperatures or in rapid high-to-low-to-high temperature cycles. Respond to process temperature changes in as little as 30 seconds. Ideal for real-time pH measurement and control.

SELF-CLEANING CARTRIDGE ELECTRODES

feature a flat measuring surface to minimize electrode coating, scratching, and breakage. Order the electrode housing with electrode and only replace the cartridge as needed; electrode replacement is performed inexpensively and quickly without disconnecting wires from the controller or transmitter. Models with retractable housings allow insertion up to 12" into pipes and tanks.

ULTRAPURE WATER ELECTRODE SYSTEM

features unique flow cell design with grounded stainless steel electrode to prevent noise pickup and CO₂ contamination when measuring pH in low-ionic-strength solutions. System comprises flow cell, ATC compensating probe, and electrode—but replace only the low-cost electrode.





**FREE TECHNICAL
APPLICATIONS ASSISTANCE!**

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