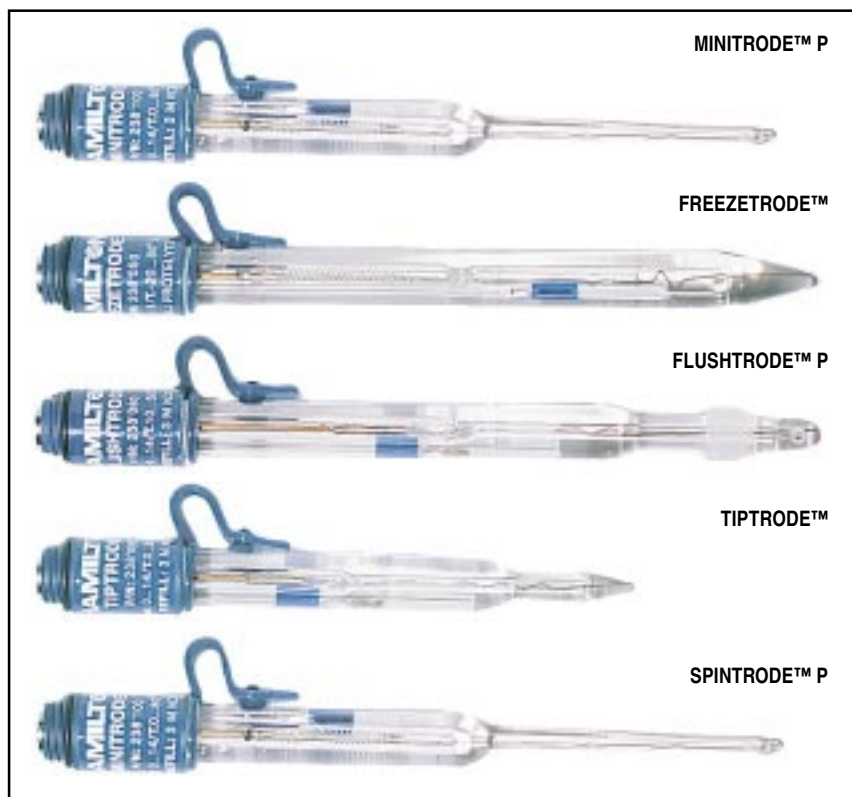


## Protein Resistant pH Electrodes



Measuring the pH of biological samples containing proteins is difficult. Proteins in solution can combine with silver ions from the electrolyte to clog the pH electrode diaphragm. This leads to long response times, inaccurate pH measurements, and eventually discarded electrodes. These protein resistant electrodes are designed for rapid, accurate, and reproducible pH measurements of protein containing solutions.

Unique to these pH electrodes is the specially formulated Protelyte™ reference electrolyte. Protelyte™ electrolyte prevents the precipitation of proteins on the electrode diaphragm. You get faster, more accurate, reproducible pH measurements of your samples. Select from five specialized electrodes. The best electrode for you depends upon your applications, physical size limitations, and temperature range. Each has a pH range of 2 to 11.

- Ideal for determining pH in samples that contain protein
- Faster response times than traditional pH electrodes
- More accurate than traditional pH electrodes
- Longer electrode life — more economical
- Five styles available to meet most application needs
- pH range from 2 to 11

Protein Resistant Electrodes				
Catalog No.	Electrode	Length	Outer Diameter	Temp. Range
CGS 8136.75	MINITRODE™ P	100 mm	3 mm	0° to 80°C
CGS 8137.75	SPINTRODE™ P	180 mm	3 mm	0° to 80°C
CGS 8138.75	FREEZTRODE™	120 mm	12 mm	120° to 80°C
CGS 8139.75	FLUSHTRODE™ P	120 mm	12 mm	10° to 50°C
CGS 8140.75	TIPTRODE™	25 mm	6 mm	0° to 80°C

### MINITRODE™ P

The small size of this sensor makes it ideal for pH measurement of sample in microplates and microcentrifuge tubes. The sensor tip is 3 mm diameter with a usable length of 100 mm (3.9 inches).

### FREEZETRODE™

This sensor is ideal for measuring the pH of samples stored in cold rooms. Select this sensor if your sample is between -20° to +80°C. It has a 12 mm diameter tip.

### FLUSHTRODE™ P

If your sample contains between 5 to 85% water. It is good for determining pH of buffer solutions. It has a 12 mm diameter tip.

### TIPTRODE™

This pH sensor was designed for pH measurements in applications requiring penetration of solid and semi-solid materials including: foods, gelatinous materials, and viscous buffers. It has a 6 mm tip.

### SPINTRODE™ P

Use the SPINTRODE™ to determine the pH of samples in NMR tubes. The 3 mm diameter, 180 mm (7 inch) long sensor allows you to determine the pH without transferring the sample from the NMR tube.

These pH Electrodes are supplied individually and have A7 type connectors. To ensure the most accurate pH measurements, calibrate your electrodes with DURACAL™ Buffer Solutions for more information.

Catalog No.	Product
CGS 8141.75	Protelyte™ Reference Electrolyte Solution, 100 ml
CGS 8142.75	Electrode Storage Solution, 500 ml
CGS 8143.75	Electrode Connecting Cable, BNC to AS7, 1 m (3.3 ft)
CGS 8144.75	Electrode Connecting Cable, DIN to AS7, 1 m (3.3 ft)
CGS 8145.75	Electrode Connecting Cable, Metrohm (Lemo) to AS7, Type F, 1 m (3.3 ft)
CGS 8146.75	Electrode Connecting Cable, Metrohm (Lemo) to AS7, Type H, 1 m (3.3 ft)
CGS 8147.75	Electrode Connecting Cable, Radiometer to AS7, 1 m (3.3 ft)
CGS 8148.75	Electrode Connecting Cable, Standard US to AS7, 1 m (3.3 ft)