

LABORATORY pH ELECTRODES

- √ Full range – 0.00 ÷ 14.00 pH
- √ Large temperature range - 0 ÷ 100°C
- √ Speed of response – 95% in less than 1 sec
- √ Stable performance
- √ High accuracy - ±0.01pH

MICROSYNT offers more than 50 types of laboratory and industrial pH electrodes, made in USA, highly sensitive and fast, with full range, stable performance, low impedance, low sodium ion error and stable Ag/AgCl internal leads.

◆ Combination or separate electrodes?

The convenience of handling one combination pH/reference electrode as compared to using separate pH and reference electrodes has been well established in laboratory and portable pH measurement. Separate electrodes are used only for special purposes. Even on-stream measurement can beneficially use polymer body combination electrodes which can be mounted in the affordable flow cell.

◆ Glass or epoxy body electrodes?

Both body types provide the identical excellent pH measurement. The epoxy body extends over the pH sensitive glass bulb so that the bulb is protected. This virtually unbreakable electrode is rugged enough to use as a stirring rod. Glass body construction is desirable for special situations, for example, in the presence of organic solvents, biological products, proteins, etc.

◆ Sealed or refillable reference electrodes?

Historically, it had been thought that stable reference electrodes required high flow liquid junctions. For that reason, all reference electrodes were refillable. During the last twenty years, sealed, essentially no-flow designs have been shown to be of equal stability. Being permanently sealed, these electrodes eliminate the need for refilling and can be used in pressurized applications. Reference junctions are made of a polymeric material.

◆ Single or double junction reference electrodes?

Most pH measurement can be made with single junction reference electrodes. However, materials such as silver, sulfide ions and proteins can precipitate at the junction. Double junction designs use potassium nitrate in the section contacting the sample and prevent these reactions.



Model	Size(mm)		Special features
	Diameter	Length	
S150CD	12.0	150	Sealed, gel-filled reference, Double Junction
S450CD	15.0	115	Flat surface, Double Junction, Sealed, gel-filled reference
S175CD	12.0	150	Spear tip, Double Junction, Sealed, gel-filled reference
SG201CD	12.0	150	Refillable, liquid solution-filled reference