



Hach Differential pH at a glance

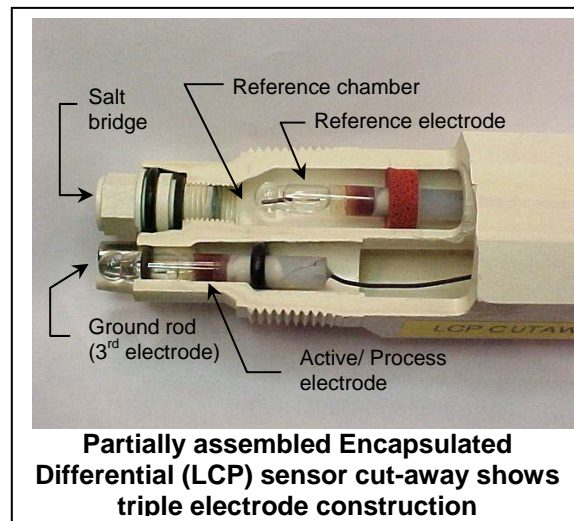
What separates Hach Differential pH sensors from Combination sensors!

Benefit Summary:

- **Long sensor life:** Overall sensor life is at least 3X that of conventional combination pH sensors so replacement costs are minimized
- **Accurate & stable pH readings:** The Hach/GLI technology provides accurate and stable pH measurements with the longest time between maintenance visits so downtime is minimized

Differential pH Technology Features:

- **Three electrodes instead of the two** normally used in conventional pH sensors. Process and reference electrodes measure the pH differentially with respect to a third ground electrode. The end result is unsurpassed measurement accuracy, reduced reference junction potential, and virtual elimination of sensor ground loops



Partially assembled Encapsulated Differential (LCP) sensor cut-away shows triple electrode construction

- **Unique, replaceable salt bridge & buffer solution.** Hach differential sensors hold an extraordinary volume of buffer solution that helps in protecting the reference electrode from harsh process conditions. The equitransferrant buffer solution's chemistry is designed to minimize pH shifts due to dilution. The result is extended working life of the sensor. The salt bridge simply threads onto the end of the sensor if replacement is needed
- **Encapsulated construction** protects the sensor's built-in preamp board from moisture and humidity, ensuring reliable sensor operation
- The Preamp board produces a strong signal, enabling the sensor to be located **up to 3000 ft** from the analyzer
- The **Warranty** on the differential sensor is one of the best in the industry – one year unconditional, and up to 30-month pro-rated
- **Proven technology** since 1970 – the year GLI invented the Differential Electrode Technique for pH measurement applications and patented its design