

Chlor-Alkali pH/ORP

The chlor-alkali process creates chlorine gas (Cl₂) and sodium hydroxide (NaOH) through electrolysis of a salt solution. The brine solutions are monitored using pH measurements to improve operating efficiency, reduce energy costs, and incident prevention.

Challenges

Maintaining a precise and stable pH measurement of salt water within an electrolysis plant is difficult because of the harsh environment:

- Highly corrosive
- High temperature

 Short sensor life and failure are caused by liquid junction coating, plugging and poisoning make maintenance and replacement cost frequent. pH measurement in brine solutions are difficult with inaccuracy and short sensor life being key problems in these applications

Solution

With over 60 years of manufacturing experience and serving the Texas Gulf Coast's harshest industrial environments; Van London has created a series of pH electrodes that perform extremely well.



If the process is isolated, an in-line electrode such as the Y-410B-F6 or V-19DB-F6 Series is recommended.



If the process is not isolated, a retractable such as the MK7 or Live Tap model is recommended.

Specifications			
Body material	Ryton	Kynar	Stainless Steel
pH Range	0-14	0-14	0-14
Temperature Range	0-130°C	0-130°C	0-130°C
Pressure Range	0-150 PSI @ 25°C		

For more information, contact your AlpHa/Van London Co. representative or distributor.