

# Industrial PH Electrode User Manual

## Features

- 1.Adopt international advanced solid dielectric and large area PTFE liquid junction, no clogging, easy maintenance.
- 2.Long distance reference diffusion path, extends electrode life greatly in harsh environments. Using PPS / PC shell, Up and down 3/4NPT pipe thread, easy installation, no need sheath, saving installation costs.
- 3.Electrode is made of high quality low-noise cable, make signal output length greater than 40 meters or more, without interference.
- 4.No supplemental dielectric, a little maintenance.
- 5.High accuracy, fast response, good repeatability.
- 6.With silver ions Ag / AgCL reference electrode.
- 7.Proper operation to extend service life
- 8.Side or vertically installation to the reaction tank or pipe.
- 9.Electrode can be used interchangeably with similar overseas electrodes.

## Industrial PH electrode Instruction



## PH electrode type and Technique indexes

Model	PH range	Temperature℃	Safety Pressure (Mpa)	Connect mode	Internal resistance MΩ(25℃)	Zero potential	Theoretical percentage slope ( % )	Use Range
PH8012	0~14	0~60	0.6	Cable	≤250	7±0.4	≥95	Environmental protection, Polluted water with temperature comsensation

## PH electrode use and maintenance



Electrode tip bottle have adequate protective 3.3 M KCL bubble solution,

the electrode tip soaks inside, in order to keep the glass bulb and the liquid junction activating, loosen protective bottles, pull out the electrode, wash with deionized water before measure.

1. Throw off the air bubbles within the glass bulb, otherwise it will cause measurement errors, stir the test solution with electrode to accelerate response when measuring, then place the electrode.
2. Check the joints dry and clean or not, if soiled, use ethanol clean and blow to dry before use.
3. Using two-point method to calibrate electrode, usually first setting with PH 6.86 buffer solution, and then PH 4.01 or PH 9.18 buffer solution determine the slope.
4. Wash electrode then inserted to the bottle and tighten the protection cap after use, to prevent the solution leaking.
5. The electrode should be cleaned periodically, if the liquid junction between electrode glass bulb and PTFE ring contaminated, clean with following reagents.
  - a. Surfactant cleaning.
  - b. Clean calcium or metal hydroxide precipitate with 10% diluted hydrochloric acid.
  - c. Clean sulfide precipitation with 10% dilute hydrochloric acid.
  - d. Clean protein adhesives with 10% dilute hydrochloric acid and pepsin mixture.