

# Mottech Liquid pH Sensor



**Mottech's pH sensor is a professional solution for measuring the pH value.**

This sensor is simple to operate, install and maintain and does not require a professional calibration device.

Mottech's pH sensor continuously and accurately measures the pH values and is especially suitable for measuring the pH in agriculture, wastewater, treatment plants and environmental protection.

The Mottech liquid pH Sensor can be connected directly to any controller in Mottech's system via analog input or Mottech Smart Card.

## Features and Benefits

**On-line & real-time measurement**



**Solid dielectric and PTFE liquid junction, not easy jam, maintenance free**



**High accuracy**



**Simple operation & high reliability**



**Internal signal isolation, strong anti-interference**



**Widely power supply(7-30VDC)**



**Probe can be used under water(IP68)**



**Submerged mounting bracket is optional**



## Applications



**Agriculture irrigation**



**Water source monitoring**



**Water conservancy**



**Environmental monitoring**



**Agriculture**



**Sewage treatment**



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## Technical specification

Item	Technical Specification
<b>Measurement Principle</b>	Electrochemistry
<b>Range</b>	0-14pH
<b>Supply</b>	7-30VDC (power consumption<0.2W)
<b>Accuracy</b>	±0.05pH
<b>Resolution</b>	0.01pH
<b>Temperature Compensation</b>	Temperature compensation is optional
<b>Response time</b>	<8s(flowing liquid), <14s(stationary liquid)
<b>Stability</b>	≤0.01pH/24h
<b>Output Signal</b>	4-20mA
<b>Calibration Cycle</b>	Every 6 month(General water ) Every 3 month or shorter (Seriously polluted water )
<b>Operating Environment</b>	0-+80°C<0.6MPa), high pressure is customizable
<b>Cable length</b>	5m (default),customizable
<b>Ingress Protection</b>	IP68
<b>Storage</b>	10-60°C@20%-90%RH
<b>Code</b>	M.SEND-92-A

## pH scale

pH Value	Description
<4.5	Strongly acidity
4.5-5.5	Acidity
5.5-6.5	Faintly acidity
6.5-7.5	Neutral
7.5-8.5	Faintly alkalinity
8.5-9.5	Alkalinity
>9.5	Strongly alkalinity

## Electrode maintenance

**pH electrode is not used at ordinary times and can be soaked in 3mol/l KCL solution or saturated KCL solution.** It is strictly prohibited to immerse the electrode in distilled water and deionize the water or tap water with minimal plasma content. If the pH electrode is contaminated with inorganic substances, it can be cleaned with 0.1mol/l Hcl or NaOH solution for a few minutes and then washed with distilled water. If the pH electrode is contaminated with organic substances, it can be cleaned with alcohol or acetone and then cleaned with distilled water.(note: the protective cap before the electrode should be removed when using);

Clean the electrode with tap water every 3 months or 6 months according to the working environment.

## Installation & Fixed

