Grove - PH Sensor Kit (E-201C-Blue)

PRODUCT DETAILS

Feature

- Widely used in chemical industry, pharmaceutical industry, dye industry, and scientific research
- Support with both Arduino and Rasberry Pi
- Compact size for easy deployment and cost-effective
- Resolution: at most ±0.15PH (STP)
- Probe replaceable

Description

Are you trying to find an easy to use and cost-effect PH sensor/meter? Do you want to use a PH sensor/meter with Arduino or Raspberry Pi? Well, this new Grove - PH Sensor will meet all your needs. The PH sensor measures the hydrogen-ion activity in water-based solutions, we usually use it to measure the PH of a liquid. It is widely used in the chemical industry, the pharmaceutical industry, the dye industry, and scientific research where

acidity and alkalinity testing is required. The drive board in this kit support both 3.3V and 5V system. And with the stander BNC probe interface and Grove connector, it is very convenient to work with Arduino and Raspberry Pi.

Note

This product is non-RoHS certified.

Specification

Items	Values
Operating voltage	3.3V/5V
Range	0-14PH
Resolution	±0.15PH（STP）
Response time	〈1min
Probe Interface	BNC
Measure temperature	0-60℃
Internal resistance	≤250MΩ（25℃）
Alkali error	0.2PH（1mol/L）Na+，PH14）（25℃）

Cautions

- Before being measured, the electrode must be calibrated with a standard buffer solution of known PH value. In order to obtain more accurate results, the known PH value should be reliable, and closer to the measured one.
- When the measurement is completed, the electrode protective sleeve should be put on. A small amount of 3.3mol / L potassium chloride solution should be placed in the protective sleeve to keep the electrode bulb wet.
- The leading end of the electrode must be kept clean and dry to absolutely prevent short circuits at both ends of the output, otherwise it will lead to inaccurate or invalid measurement results.
- After long-term use of the electrode, if you find that the gradient is slightly inaccurate, you can soak the lower end of the electrode in 4% HF (hydrofluoric acid) for 3-5 seconds, wash it with distilled water, and then soak in potassium chloride solution to make it new.

Part list

Items	Quantity
PH prober	1
Grove cable	1
Driver board	1
Saturated sodium chloride solution	1

What is Grove?

<u>Grove</u> makes it easier to connect, experiment, and simplify the prototyping process. No jumpers or soldering required. We have developed more than 300 Grove modules, covering a wide range of applications that can fulfil a variety of needs. Not only are these open hardware, but we also have open-source software.

Note

For all Grove users (especially beginners), we provide you with the guidance of operation. Please read the instructions through the official website before your using the product.

ECCN/HTS

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