

IoT Compatible Pre-Calibrated pH Sensor



Unlock Precise pH Measurements with Ease

The **IoT Compatible Pre-Calibrated pH Sensor** is your ultimate solution for accurate and reliable pH sensing in various applications. Designed for hobbyists, educators, and professionals, this versatile kit integrates seamlessly with your microcontroller projects, enabling precise monitoring of pH levels in liquids.

Key Features

- **High Accuracy:** Delivers precise pH measurements with a resolution of 0.01 pH units.
- **Wide pH Range:** Capable of measuring pH levels from 0 to 14, accommodating diverse applications.
- **Temperature Compensation:** Built-in temperature sensor ensures accurate readings across varying temperatures.
- **Easy Integration:** Compatible with Arduino, Raspberry Pi, and other microcontrollers through the IDE.

- **Durable Design:** Corrosion-resistant probe and robust construction for long-term reliability.
- **User-Friendly Calibration:** Simple two-point calibration process enhances measurement accuracy.
- **Low Power Consumption:** Ideal for battery-operated and remote sensing applications.

Technical Specifications

Specification	Details
Measurement Range	pH 0 - pH 14
Resolution	0.01 pH
Accuracy	±0.1 pH
Output Signal	Analog voltage output (0-5V)
Power Supply	3.3V to 5V
Operating Temperature	0°C to 50°C
Probe Material	Glass electrode with platinum internal reference
Weight	150g

What's in the Box?

- IoT Compatible Pre-Calibrated Analog pH Sensor
- pH Electrode Probe
- Connecting Cables
- Mounting Hardware

Applications

- **Aquaculture:** Monitor the pH levels in fish tanks and aquariums to ensure optimal living conditions.
- **Hydroponics:** Maintain ideal nutrient solution pH for healthy plant growth.

- **Environmental Monitoring:** Assess water quality in natural water bodies and wastewater treatment facilities.
- **Educational Projects:** Perfect for STEM education, enabling hands-on learning in chemistry and electronics.
- **Industrial Processes:** Control pH in chemical manufacturing, food and beverage production, and pharmaceuticals.

Pricing

Maximum Retail Price (MRP): ₹20,000

Why Choose IoT Compatible Pre-Calibrated pH Sensor?

- **Reliability:** Engineered with high-quality components to ensure consistent performance.
- **Versatility:** Suitable for a wide range of applications, from DIY projects to professional environments.
- **Support & Community:** Benefit from comprehensive documentation, tutorials, and a vibrant community of makers and engineers.

Get Started Today!

Empower your projects with precise pH measurement capabilities. Whether you're developing a smart garden system, conducting scientific experiments, or managing industrial processes, the **IoT Compatible Pre-Calibrated pH Sensor** is your go-to solution.

Product Images:



