

UbiBot® GS2-sim is a wireless EC & PH value remote monitoring device, specially designed for the agricultural hydroponic industry.

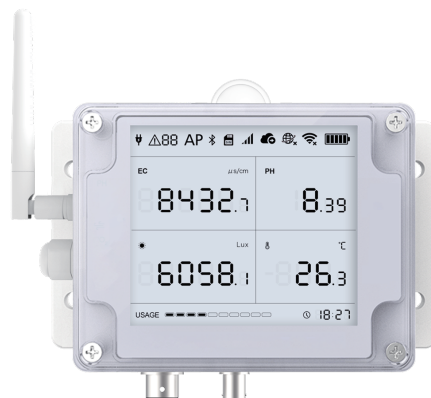
GS2-sim includes 1 x DS18B20 external temperature probe, 1 x EC probe, 1 x PH probe, and has a built-in ambient light sensor. It supports WiFi and mobile GPRS/3G/4G 2 types of connection. A mobile GPRS/3G/4G network provides internet connection when WiFi is not available.

Once configured with network connection, GS2-sim measures the temperature, EC and PH value of the liquid, and syncs data automatically to UbiBot® IoT cloud platform, allowing you to access data and monitor the environment remotely from anywhere in the world via the free UbiBot APP or Web Console and to receive real-time alerts.

We provide a UbiBot Global SIM card for each device for free.

There are on-board knobs for the EC/PH probes accuracy calibration. We also provide and recommend automatic calibration that you can perform yourself using the UbiBot Web Console.

GS2- is industrial grade, IP65 dustproof and water-resistant for harsh environment.



FEATURES

- 1 x DS18B20-Audio Temperature Probe, 1 x EC probe, 1 x PH probe, built-in ambient light sensors
- 2.4 GHz WiFi and mobile GPRS/3G/4G 2 types of connection, no need of hubs or gateways; a free UbiBot Global SIM Card is included
- Industrial-grade shell, strong and durable; IP65 water-resistant for outdoor use
- 4" high-quality LCD screen displaying current environmental conditions
- Free App & Web Console to access and monitor real-time data remotely, no subscription fee
- Unlimited UbiBot cloud storage for historical data; free historical data export
- Multiple ways of receiving real-time alerts: App notifications, emails, phone calls, SMS, HTTP
- Easy setup with free UbiBot App or PC tools
- Memory with a capacity of 300,000 records stores all data even if the network is temporarily disconnected, which ensures there are no gaps in the data history.
- Three types of power supply: internal lithium battery, Type-C 5V (USB cable provided), and DC 12V (not included)

EXTERNAL PROBES & ACCESSORIES SUPPORTED

- 1 x DS18B20 DS18B20-Audio Temperature Probe, 1 x EC probe, 1 x PH probe are already included. The device can't support any other probes.
- UbiBot Global SIM Card (We provide a free UbiBot Global SIM Card for each SIM version device)
- Solar Cell Panel (Optional)
- 12V Power Adapter (Optional)

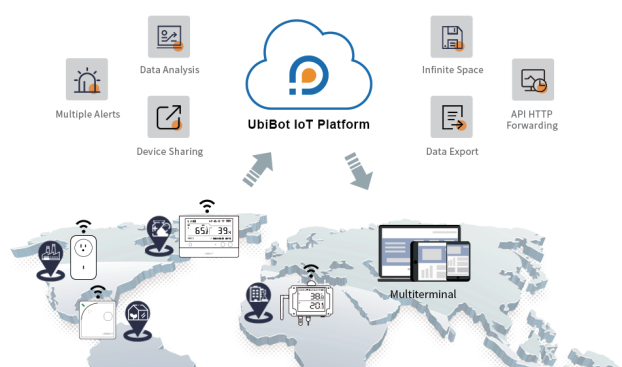
NOTE:

- When the device is connected to external power supply, PH readings may **fluctuate slightly**.
- To **achieve high accuracy**, we recommend to **calibrate** the EC and PH probes before use.
- For WiFi connection, GS2 can only work with a **2.4 GHz WiFi network**. 5 GHz WiFi is not supported.
- GS2 is **IP 65 waterproof**, but not resistant to high humidity over 90%.

SPECIFICATIONS

| Technical specifications | |
|------------------------------------|---|
| External DS18B20 Temperature Probe | -55°C to 125°C |
| Ambient light | 0-83k lux |
| PH | 0-14 PH |
| EC | 2-20000 μ S/cm |
| Accuracy | Temperature ± 0.5 °C; ambient light $\pm 2\%$; PH ± 0.1 PH; EC ± 2 F.S |
| Memory | 300,000 sensor records |
| Network connection | |
| WiFi | 2.4GHz or 2.4/5GHz, channels 1-13 (5GHz WiFi NOT supported) |
| Mobile networks | LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/28/B66;LTE-TDD:B34/B38/B39/B40/B41;WCDMA:B1/B2/B4/B5/B6/B8/B19;GSM:850/900/1800/1900 MHz |
| Physical specifications | |
| Materials | Flame resistant ABS & PC |
| Dimensions | 11.5 x 9 x 5.5 cm |
| Weight | 450g \pm 3 g |
| Colour | White |
| Screen | 4" LCD with backlight |
| Ports | 1 x Type-C; 1 x 3.5 mm Audio (DS18B20); 1 x EC port; 1 x PH port |
| Power Source | Internal Lithium batteries (2900 mAh); Type-C 5V (USB cable included); DC 12V (not included) |
| External probes | |
| External probes | 1 x DS18B20 temperature probe, 1 x PH probe, and 1 x EC probe are already included |

UbiBot Cloud IoT Platform



Data Management: Manage all your IoT data in one place; you could add as many devices as you want to one UbiBot account.

Unlimited Storage: Unlimited cloud-based storage ensures you will never run out of space. This allows you to view all your historical data via UbiBot App or Web.

Free App & Web Console: Using **UbiBot App** and **Web Console** is free. Powerful and thoughtful features provide you brilliant experience.

Analysis and Visualization: Use powerful analysis and visualization tools to get the most out of your data; spot trends and direct comparisons.

Real-Time Alerts: Fully customizable alert system will notify you via **App notifications, emails, phone call/SMS, HTTP** whenever any metric goes out of the range preset.

Highly Secure Platform: UbiBot IoT platform is designed to keep all your data secure so you never have to worry about hackers or other security issues.

Third-Party Services: Working with **IFTTT, Alexa, Google Assistant, Google Sheet**

Compliant with FDA CFR21