

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

GS2-EL includes 1 x DS18B20-Audio Temperature Probe, 1 x EC probe, 1 x PH probe, and has a built-in ambient light sensor. Once configured with WiFi connection, GS2-EL 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.



There are on-board knobs for the EC/PH probes accuracy calibration.

We also provide and recommend do-it-yourself automatic calibration that you can perform using the UbiBot Web Console.

GS2-EL 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 sensor
- 2.4 GHz WiFi connection, no need of hubs or gateways
- 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 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.
- Solar Cell Panel (Optional)
- 12V Power Adapter (Optional)

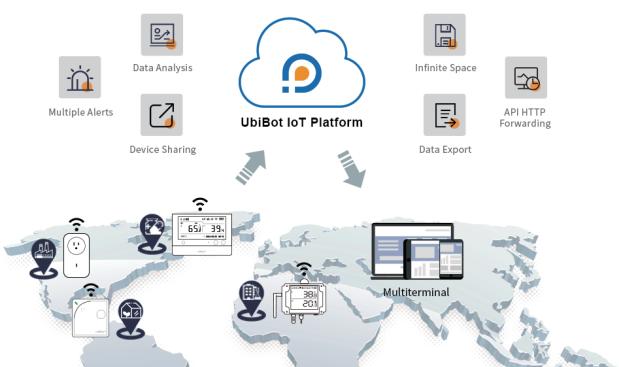
## NOTE:

- 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.

## SPECIFICATIONS

Technical specifications	
External DS18B20 Temperature Probe	-55°C to 125°C
Ambient light	0-83k lux
PH	0-14 PH
EC	2-20000 $\mu$ s/cm
Accuracy	Temperature $\pm 0.5$ °C; ambient light $\pm 2\%$ ; PH $\pm 0.1$ PH; EC $\pm 2$ F.S
Memory	300,000 sensor records
Network connection	
WiFi	2.4GHz or 2.4/5GHz, channels 1-13 (5GHz WiFi NOT supported)
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; it can't support any other probes.

## 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**