UBIBOT GS1-PL4G1RS is an advanced version of the GS1-AL4G1RS. GS1-PL4G1RS supports WiFi and Cellular connection and also has a GPS positioning module for real-time location tracking, which makes it suitable for purposes where real-time tracking is required, like logistic vehicles, transport vehicles, etc. An external BD GPS Active Antenna is connected to the device, which allows for the reception of satellite signal. Users will be able to monitor not only the physical location of moving refrigerated vehicles but also the temperature & humidity of their environment. The route of the moving vehicle can be recorded and sent to the platform via the mobile data network.

UBIBOT GS1-PL4G1RS has built-in temperature, humidity, and ambient light sensors. It supports multiple RS485 external probes; only one of each type can be connected at a time.

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

GS1-PL4G1RS-1DS has the same features as GS1-PL4G1RS. Besides RS485 probes, it can also support 1 xDS18B20 -Audio Temperature Probe, and only one of each type of probe can be connected at a time; Wind Speed Sensor is incompatible with DS18B20-Audio Temperature Probe.

FEATURES

· Built-in temperature, humidity, and 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
· Includes a GPS positioning module for real-time location tracking
· 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
· Working with IFTTT, Google Sheet, Alexa
· Supporting multiple RS485 external probes, but only one of each type can be connected at a time; GS1-PL4G1RS-1DS also supports DS18B20-Audio Temperature Probe
· 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)
· Compliance with CE, EN 12830, FCC, FDA CFR21, IC, RCM, RoHS, TELEC

NOTE:

- For WiFi connection, GS1-PL4G1RS can **only work with a 2.4 GHz** WiFi network. 5 GHz WiFi is not supported.
- The location tracking feature is only for long-distance transportation purposes; the positioning accuracy is **50-100 meters**.
- We provide a **free UbiBot Global SIM Card** for each UBIBOT GS1-PL4G1RS device.
- GS1-PL4G1RS is **IP 65 waterproof**, but not resistant to high humidity over 90%.
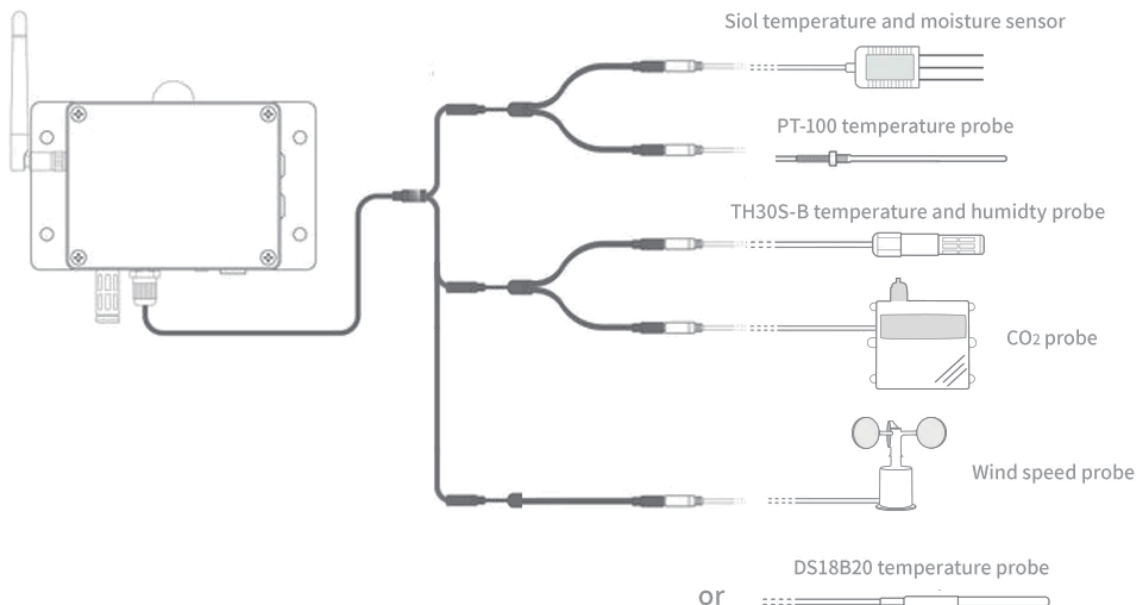
EXTERNAL PROBES & ACCESSORIES

- With splitters, it supports multiple RS485 probes:

   TH30S-B Temperature and Humidity Probe

   Soil Temperature and Moisture Sensor

   PT 100 Industrial-grade Temperature Probe

   Wind Speed Sensor

   CO2 Probe

   GS1-PL4G1RS-1DS also supports 1 x DS18B20-Audio Temperature Probe

External Probes

· TH30S-B Air Temperature and Humidity Probe

· Soil Temperature and Moisture Sensor

· PT 100 Industrial-grade Temperature Probe

· Wind Speed Sensor

· CO2 Probe

· DS18B20-Audio Temperature Probe (Only for GS1-PL4G1RS-1DS)

Accessories

· UbiBot Global SIM Card (free)

· UbiBot Audio Plug Splitter for connecting external probes

· UbiBot Audio Splitter - 1 male to 6 females for connecting external probes

· External Probe Extender - Audio Plug

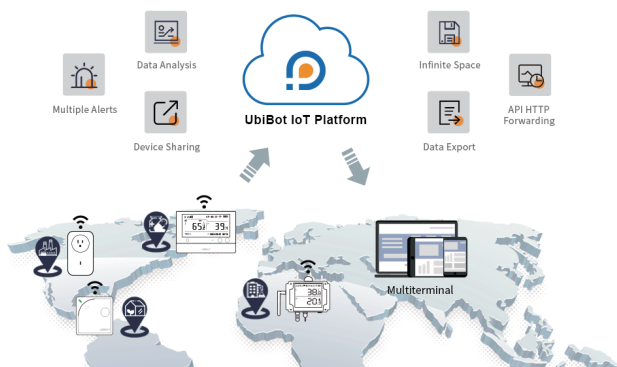· Solar Cell Panel More details

· 12V Power Adapter

Siol temperature and moisture sensor

PT-100 temperature probe

TH30S-B temperature and humidty probe

CO2 probe

Wind speed probe

or DS18B20 temperature probe

NOTE:

- **Only one of each type of probe can be connected at a time.**

- **For GS1-PL4G1RS-1DS, Wind Speed Sensor is incompatible with DS18B20-Audio Temperature Probe.**

SPECIFICATIONS

Technical specifications	
Temperature	-20℃ to 60℃(-4℉ to 140℉)
Humidity	10% to 90%, No condensation
Ambient light	0-83k lux
Accuracy	Temperature ±0.3 ℃, Humidity ±3%, Ambient light ±2%
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
GNSS function	GPS, GLONASS, BeiDou/Compass, Galileo, QZSS

Physical specifications	
Materials	Flame resistant ABS & PC
Dimensions	11.5 x 9 x 5.5 cm
Weight	450g ± 3 g
Colour	White
Screen	4'' LCD with backlight
Ports	1 x Type-C; 1 x 3.5 mm Audio
Power Source	Internal Lithium batteries (2900 mAh); Type-C 5V (USB cable included); DC 12V (not included)

External probes	
External probes	Supporting TH30S-B, Soil Probe, PT-100, Wind Speed Sensor, CO2 Probe; only one of each type can be connected at a time. GS1-PL4G1RS-1DS also supports DS18B20-Audio Temperature Probe, while Wind Speed Sensor is incompatible with DS18B20-Audio Temperature Probe.

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