



UbiBot GS1-AL4G1RS-S Industrial-Grade (WIFI / SIM) Temperature Humidity Light Data Logger IoT System

SKU: UBIGS1AL4G1RSS
Manufacture Warranty period: 12 months
Country of Origin: China

Introduction

UbiBot® industrial-grade GS1-AL4G1RS-S is a cloud-based environmental monitoring data logger. 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. With its embedded temperature, humidity and ambient light sensors, it detects environmental data all day round and automatically syncs all data to the 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.

GS1-AL4G1RS-S is IP65 dustproof and water-resistant for outdoor use.

It supports multiple 5V and 12V RS485 external probes, but only one of each type can be connected at a time.

The clear 4" LCD screen allows you to instantly view the latest data.

***UbiBot GS1-AL4G1RS-S unable to support 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.
- 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.
- Working with IFTTT, Google Sheet, Alexa.
- Supporting multiple RS485 external probes; only one of each type can be connected at a time; GS1-AL4G1RS-1DS also supports 1 x 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.

Note:

- For WiFi connection, GS1-AL4G1RS-S can only work with a 2.4 GHz WiFi network.
- **5 GHz WiFi is not supported.**
- It supports multiple RS485 external probes, but only one of each type can be connected at a time.
- GS1-AL4G1RS-S is IP 65 waterproof, but not resistant to high humidity over 90%.

Application

- Online real-time detecting temperature, humidity and light level
- Agriculture
- Greenhouse
- Museum
- Wine Cellar
- Pharmacy
- Horticulture
- Animal Breeding Warehouse

Package includes

| |
|---|
| 1 x GS1-AL4G1RS-S device |
| 1 x manual book |
| 1 x Type-C USB cable (1m) |
| 1 x Singapore Safety Mark 12/2A Power Adapter |



- Data sync via WiFi & SIM connectivity
- 24/7 temperature & humidity monitoring
- Waterproof, durable in extremely humid environments
- Multiple power supply methods
- Larger internal storage with up to 300,000 records
- No hub required

Specifications

| Temperature | |
|--|---|
| Range: | -20°C to 60°C (-4°F to 140°F) |
| Typical Accuracy: | ±0.3°C |
| Humidity | |
| Range: | 10% to 90%, No condensation |
| Typical Accuracy: | ±3%RH |
| Ambient Light | |
| Range: | 0 to 83,000 lux |
| Typical Accuracy: | ±2% |
| External Probe Connector | |
| Black connector for 5V and 12V RS485 Probe | |
| Operation System: | iOS 11+, Android 8.1+, or Windows 7+, or masOS v10.8+ |
| Memory: | 300,000 sensor records |
| WiFi Specification | 2.4GHz, channels 1-13 (5GHz WiFi NOT supported) |
| Mobile Networks | Supports GPRS/3G/4G (micro SIM). SIM card is not provided. |
| LTE FDD: | B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66 |
| LTD TDD: | B34/B38/B39/B40/B41 |
| WCDMA: | B1/B2/B4/B5/B6/B8/B19 |
| GSM: | 850/900/1800/1900 MHz |
| Screen Size | 4" |
| Colour | White |
| Material | Flame resistant ABS+PC |
| Switch Type | Button |
| Power Source | Internal 2900mAh Lithium batteries |
| | Type C USB Cable |
| | DC 12V/2A Power Adapter |
| Dimensions | 11.5 x 9 x 5.5 cm |
| Weight | 475g ± 3g |

External Probes & Accessories

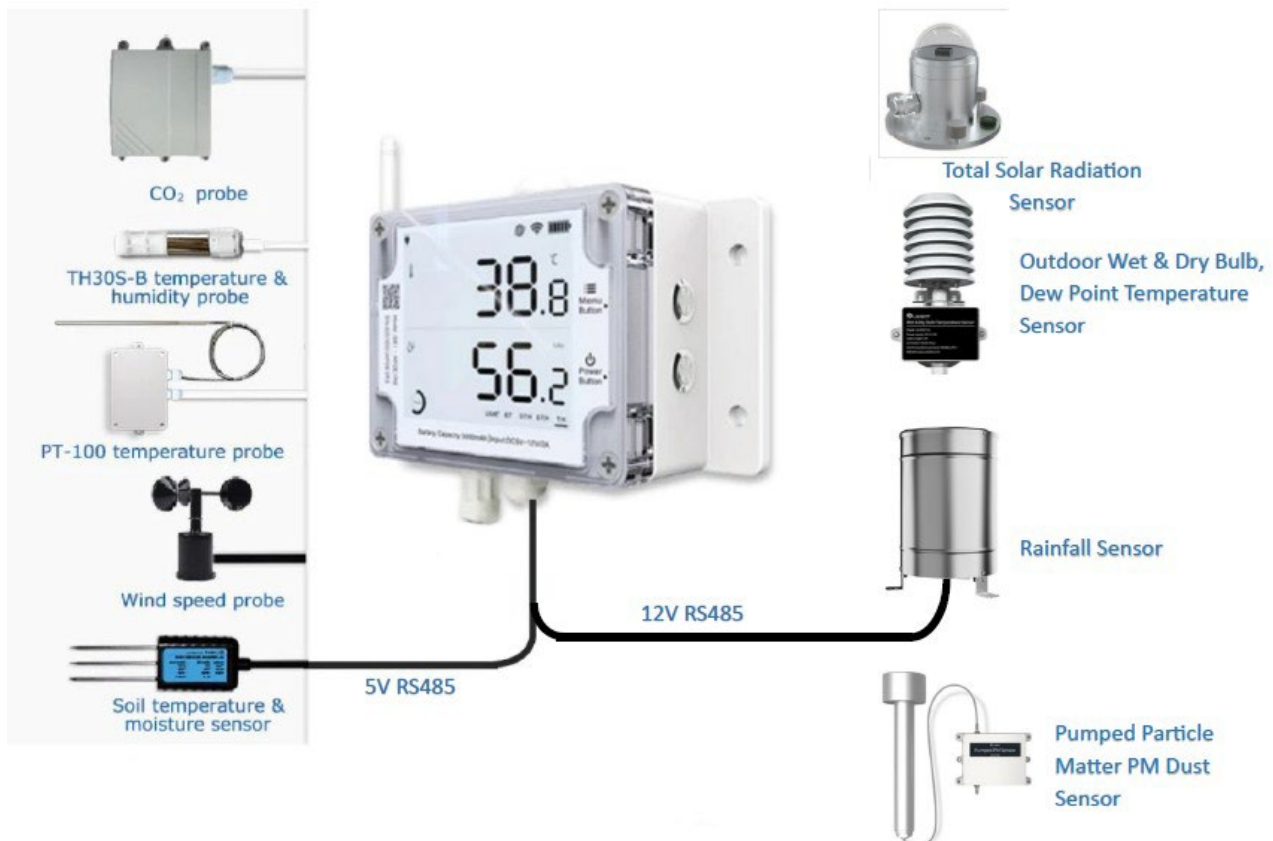
(Optional)

(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.
- Wind Direction Sensor
- Rainfall Sensor
- Total Solar Radiation Sensor

NOTE:

- Only 1 RS485 probe can be connected at a time.
- For GS1-AL4G1RS-1DS, Wind Speed Sensor is incompatible with DS18B20-Audio Temperature Probe.



The cloud-based IoT platform

UbiBot[®] offers a revolutionary way to monitor environmental conditions where they matter. The sensors synchronize data to UbiBot[®] IoT Platform using WiFi, Cellular or Ethernet connection (depending on the specific model purchased). Users can then access data from anywhere via a smartphone or the Web console.

Features:

- **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.
- **Working with IFTTT, Alexa, Google Assistant, Google Sheet**
- Compliant with FDA CFR21

Details:

Real-time and history data

The UbiBot Platform is a cloud-based IoT platform where all measured data is uploaded and stored. UbiBot App and Web Console allow you to view current data as well as historical data in graphs.

Customizable alerts and bulk operation

Setting and receiving alerts on your devices helps you to get notified of the conditions timely. When you have many devices to manage, it's time-consuming to set each alert rule one by one. Therefore, we've developed a bulk operation module with which you can set the same rule for many devices at a time.

Data export

On UbiBot Platform, you can download the history data in CSV or PDF format. The CSV file only contains raw data, while the PDF file is a summarized report with average, maximum and minimum value within the chosen period. The PDF file is much easier to read and archive.

Device sharing and bulk operation

For business users, centralized control over multiple devices is available, with no limit on the number of devices in one account. Also available are bulk operations that apply to sensor settings, alerts, and remote control routines. Devices can be shared with other people, which allows for distributed management by different colleagues.

Intelligent automation in UbiBot platform

UbiBot is committed to building intelligent industrial and home ecosystems. By integrating temperature and humidity sensors and the smart plug SP1 in one system, automated operation is achieved through data linkage. For example, fans can be switched on when the temperature rises to 30 °C.

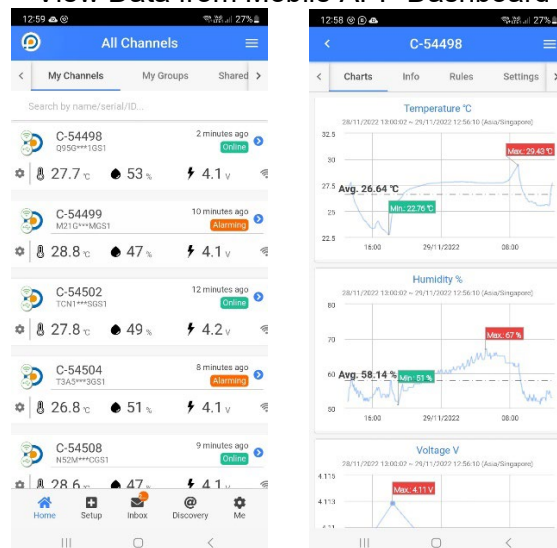
Data forwarding

UbiBot is an open platform that provides cloud-based services while supporting customers to use their own storage servers. With the data forwarding service, you can forward the data collected by your device to your own private URL to protect privacy.

Platform-based calibration

UbiBot platform supports data calibration both on the platform level as well as the device level. One-step calibration, instant display, no impact on historical data.

View Data from Mobile APP Dashboard





Download Data in Excel or PDF Format

| created_at | field1 (Temperature °C) | field2 (Humidity) | field3(Light) | field4(Voltage) |
|---------------------------|----------------------------|-------------------|---------------|-----------------|
| 2019-05-27T15:28:08+08:00 | 25.88121 | 60 | 81.639999 | 5 |
| 2019-05-27T15:28:10+08:00 | 25.894562 | 60 | 76.439995 | 5 |
| 2019-05-27T15:28:12+08:00 | 25.937286 | 61 | 76.919998 | 5 |
| 2019-05-27T15:28:14+08:00 | 25.937286 | 61 | 79.5 | 5 |
| 2019-05-27T15:28:15+08:00 | 25.96666 | 62 | 77.799995 | 5 |
| 2019-05-27T15:28:16+08:00 | 25.96666 | 62 | 75.919998 | 5 |
| 2019-05-27T15:28:18+08:00 | 26.006714 | 62 | 76.860001 | 5 |
| 2019-05-27T15:28:19+08:00 | 26.022736 | 62 | 77.720001 | 5 |
| 2019-05-27T15:28:25+08:00 | 26.121536 | 63 | 78.540001 | 5 |
| 2019-05-27T15:28:47+08:00 | 26.404594 | 60 | 97.439995 | 5 |
| 2019-05-27T15:28:51+08:00 | | | | |
| 2019-05-27T15:29:47+08:00 | 26.615547 | 58 | 78.939995 | |
| 2019-05-27T15:30:47+08:00 | 26.658272 | 58 | 86.559998 | |
| 2019-05-27T15:31:47+08:00 | 26.700996 | 57 | 96.839996 | |
| 2019-05-27T15:32:47+08:00 | 26.700996 | 57 | 84.479996 | |
| 2019-05-27T15:33:47+08:00 | 26.743721 | 57 | 83.279999 | |

Data Report

Channel Name: GMM Showroom Freezer 1
 Data Start: 01/05/2023 00:00:00 to 30/05/2023 00:00:00
 Report Generated: 31/05/2023 18:57:59

The current data transmission has been truncated, there are 8000 pieces of data in total.
 Timezone: Asia/Singapore

Device Information
 Channel Name: GMM Showroom Freezer 1
 Channel ID: 59273
 Serial: DR294W5L1
 Product ID: ubitbot-w1

Permission: Public
 Plan ID: ubitbot_free
 Storage Used: 16.99 MB
 Download Traffic: 583.97 kB

Activated at: 10/02/2023 15:19:55
 Last Entry: 31/05/2023 18:54:49
 Firmware: v3.0.1
 WiFi SSID: GMMTechnoworld

| Sensor | Maximum | Minimum | Average |
|-----------------|---------|---------|---------|
| Temperature(°C) | 32.82 | 22.52 | 28.65 |
| Humidity(%) | 68.00 | 45.00 | 57.81 |
| Light(lux) | 366.24 | 0.08 | 101.81 |
| Voltage(V) | 5.00 | 5.00 | 5.00 |

| Sensor | Maximum | Minimum | Average |
|--------------------------------|---------|---------|---------|
| WiFi RSSI(dBm) | -23.00 | -43.00 | -28.11 |
| External Temperature Probe(°C) | 7.81 | -25.11 | -19.02 |

| Entry | Created At | Temperature | Humidity | Light | Voltage | | | |
|-------|---------------------|-------------|----------|---------------------|---------|-----|---------------------|-------|
| 1 | 01/05/2023 00:00:56 | 30.48 | 44 | 01/05/2023 03:38:59 | 30.58 | 87 | 01/05/2023 07:54:01 | 30.66 |
| 2 | 01/05/2023 00:08:55 | 30.59 | 45 | 01/05/2023 03:43:59 | 30.52 | 88 | 01/05/2023 07:59:01 | 30.60 |
| 3 | 01/05/2023 00:13:55 | 30.56 | 46 | 01/05/2023 03:48:59 | 30.50 | 89 | 01/05/2023 07:54:01 | 30.70 |
| 4 | 01/05/2023 00:18:56 | 30.53 | 47 | 01/05/2023 03:53:59 | 30.55 | 90 | 01/05/2023 07:59:01 | 30.66 |
| 5 | 01/05/2023 00:23:56 | 30.59 | 48 | 01/05/2023 03:58:59 | 30.53 | 91 | 01/05/2023 07:54:01 | 30.69 |
| 6 | 01/05/2023 00:28:56 | 30.50 | 49 | 01/05/2023 04:03:59 | 30.53 | 92 | 01/05/2023 07:59:01 | 30.71 |
| 7 | 01/05/2023 00:33:56 | 30.46 | 50 | 01/05/2023 04:08:59 | 30.69 | 93 | 01/05/2023 07:44:02 | 30.66 |
| 8 | 01/05/2023 00:38:56 | 30.55 | 51 | 01/05/2023 04:13:59 | 30.65 | 94 | 01/05/2023 07:49:02 | 30.65 |
| 9 | 01/05/2023 00:43:56 | 30.50 | 52 | 01/05/2023 04:18:59 | 30.66 | 95 | 01/05/2023 07:54:02 | 30.69 |
| 10 | 01/05/2023 00:48:56 | 30.50 | 53 | 01/05/2023 04:23:59 | 30.73 | 96 | 01/05/2023 07:59:02 | 30.60 |
| 11 | 01/05/2023 00:53:56 | 30.62 | 54 | 01/05/2023 04:28:59 | 30.73 | 97 | 01/05/2023 08:04:02 | 30.65 |
| 12 | 01/05/2023 00:58:56 | 30.59 | 55 | 01/05/2023 04:33:59 | 30.71 | 98 | 01/05/2023 08:09:02 | 30.73 |
| 13 | 01/05/2023 01:03:56 | 30.53 | 56 | 01/05/2023 04:38:59 | 30.60 | 99 | 01/05/2023 08:14:02 | 30.66 |
| 14 | 01/05/2023 01:08:56 | 30.59 | 57 | 01/05/2023 04:43:59 | 30.73 | 100 | 01/05/2023 08:19:02 | 30.65 |
| 15 | 01/05/2023 01:13:56 | 30.45 | 58 | 01/05/2023 04:48:59 | 30.74 | 101 | 01/05/2023 08:24:02 | 30.74 |
| 16 | 01/05/2023 01:18:56 | 30.45 | 59 | 01/05/2023 04:53:59 | 30.84 | 102 | 01/05/2023 08:29:02 | 30.65 |
| 17 | 01/05/2023 01:23:56 | 30.57 | 60 | 01/05/2023 04:58:59 | 30.76 | 103 | 01/05/2023 08:34:02 | 30.62 |
| 18 | 01/05/2023 01:28:56 | 30.50 | 61 | 01/05/2023 05:03:59 | 30.74 | 104 | 01/05/2023 08:39:02 | 30.69 |
| 19 | 01/05/2023 01:33:56 | 30.49 | 62 | 01/05/2023 05:08:59 | 30.81 | 105 | 01/05/2023 08:44:02 | 30.65 |
| 20 | 01/05/2023 01:38:56 | 30.59 | 63 | 01/05/2023 05:13:59 | 30.77 | 106 | 01/05/2023 08:49:02 | 30.63 |
| 21 | 01/05/2023 01:43:56 | 30.49 | 64 | 01/05/2023 05:18:59 | 30.79 | 107 | 01/05/2023 08:54:02 | 30.71 |
| 22 | 01/05/2023 01:48:56 | 30.46 | 65 | 01/05/2023 05:23:59 | 30.89 | 108 | 01/05/2023 08:59:02 | 30.65 |
| 23 | 01/05/2023 01:53:56 | 30.53 | 66 | 01/05/2023 05:28:59 | 30.74 | 109 | 01/05/2023 09:04:02 | 30.62 |
| 24 | 01/05/2023 01:58:56 | 30.48 | 67 | 01/05/2023 05:33:59 | 30.76 | 110 | 01/05/2023 09:09:02 | 30.69 |
| 25 | 01/05/2023 02:03:56 | 30.43 | 68 | 01/05/2023 05:38:59 | 30.77 | 111 | 01/05/2023 09:14:02 | 30.63 |
| 26 | 01/05/2023 02:08:56 | 30.56 | 69 | 01/05/2023 05:44:00 | 30.73 | 112 | 01/05/2023 09:19:02 | 30.63 |
| 27 | 01/05/2023 02:13:56 | 30.53 | 70 | 01/05/2023 05:49:00 | 30.70 | 113 | 01/05/2023 09:24:02 | 30.70 |
| 28 | 01/05/2023 02:18:56 | 30.59 | 71 | 01/05/2023 05:54:00 | 30.86 | 114 | 01/05/2023 09:29:02 | 30.69 |
| 29 | 01/05/2023 02:23:56 | 30.56 | 72 | 01/05/2023 05:59:00 | 30.73 | 115 | 01/05/2023 09:34:02 | 30.62 |
| 30 | 01/05/2023 02:28:56 | 30.50 | 73 | 01/05/2023 06:04:00 | 30.65 | 116 | 01/05/2023 09:39:02 | 30.67 |
| 31 | 01/05/2023 02:33:56 | 30.45 | 74 | 01/05/2023 06:09:00 | 30.73 | 117 | 01/05/2023 09:44:02 | 30.58 |
| 32 | 01/05/2023 02:38:56 | 30.55 | 75 | 01/05/2023 06:14:00 | 30.67 | 118 | 01/05/2023 09:49:02 | 30.60 |
| 33 | 01/05/2023 02:43:56 | 30.50 | 76 | 01/05/2023 06:19:00 | 30.67 | 119 | 01/05/2023 09:54:02 | 30.65 |
| 34 | 01/05/2023 02:48:56 | 30.52 | 77 | 01/05/2023 06:24:00 | 30.77 | 120 | 01/05/2023 09:59:02 | 30.66 |
| 35 | 01/05/2023 02:53:56 | 30.63 | 78 | 01/05/2023 06:29:00 | 30.73 | 121 | 01/05/2023 10:04:02 | 30.63 |
| 36 | 01/05/2023 02:58:56 | 30.55 | 79 | 01/05/2023 06:34:00 | 30.67 | 122 | 01/05/2023 10:09:02 | 30.73 |
| 37 | 01/05/2023 03:03:56 | 30.47 | 80 | 01/05/2023 06:39:00 | 30.74 | 123 | 01/05/2023 10:14:02 | 30.66 |
| 38 | 01/05/2023 03:08:56 | 30.55 | 81 | 01/05/2023 06:44:00 | 30.65 | 124 | 01/05/2023 10:19:02 | 30.62 |
| 39 | 01/05/2023 03:13:56 | 30.49 | 82 | 01/05/2023 06:49:00 | 30.65 | 125 | 01/05/2023 10:24:02 | 30.66 |
| 40 | 01/05/2023 03:18:56 | 30.50 | 83 | 01/05/2023 06:54:00 | 30.63 | 126 | 01/05/2023 10:29:02 | 30.59 |
| 41 | 01/05/2023 03:23:56 | 30.60 | 84 | 01/05/2023 06:59:00 | 30.73 | 127 | 01/05/2023 10:34:02 | 30.59 |
| 42 | 01/05/2023 03:28:56 | 30.56 | 85 | 01/05/2023 07:04:00 | 30.70 | 128 | 01/05/2023 10:39:02 | 30.67 |
| 43 | 01/05/2023 03:33:56 | 30.50 | 86 | 01/05/2023 07:09:00 | 30.77 | 129 | 01/05/2023 10:44:02 | 30.60 |