

UbiBot® GS1-AETH1RS is an industrial-grade cloud-based environmental monitoring data logger. It supports WiFi and Ethernet 2 types of connection; the RJ45 network cable port provides more stable network connection. This model is embedded with internal 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.

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

The device supports three types of power supply: internal lithium battery, Type-C 5V (USB cable provided), and DC 12V (not included). The 2900mA lithium battery ensures a long working time.

GS1-AETH1RS-1DS has the same features as UBIBOT GS1-AETH1RS. Besides RS485 probes, it can also support 1 x DS18B20-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 RJ45 Ethernet 2 types of network connection, no need of hubs or gateways
- Industrial-grade shell, strong and durable
- 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
- 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:

- GS1-AETH1RS only supports **Ethernet switch with 100 Mbps or lower**. Gigabit switching hub with auto-negotiation is also compatible.
  - Due to the RJ45 cable port, this version is **not waterproof**. The optimal operational environment is 10% to 90% RH. Long-term exposure to a high-humidity environment, over 90% RH, may cause damage to the device.
  - As the Ethernet connection consumes a lot of power, we recommend you connect the external power supply all the time to ensure a constant performance.
  - For WiFi connection, GS1-AETH1RS 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-AETH1RS-1DS also supports 1 x DS18B20-Audio Temperature Probe, while Wind Speed Sensor is incompatible with DS18B20-Audio Temperature Probe.

### EXTERNAL PROBES & ACCESSORIES

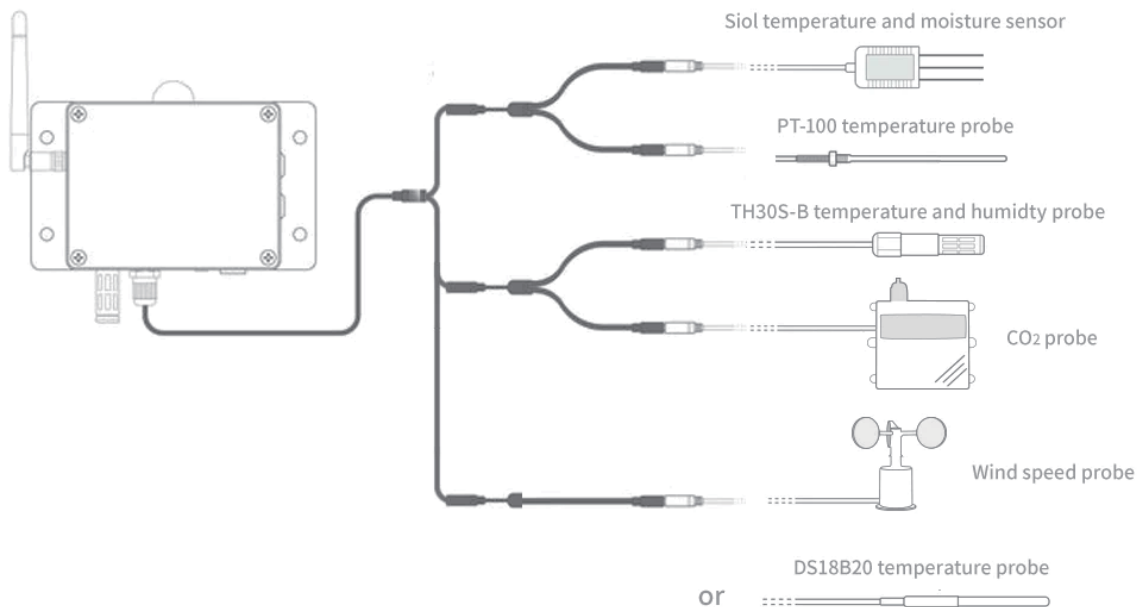
- With splitters, it supports multiple RS485 probes:
  - TH30S-B Temperature and Humidity Probe
  - Soil Temperature and Moisture Sensor
  - PT 100 Industrial-grade Temperature Probe
  - Wind Speed Sensor
  - CO2 Probe
  - GS1-AETH1RS-1DS also supports 1 x DS18B20-Audio Temperature Probe

#### 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-AETH1RS-1DS)

#### Accessories

- 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
- UbiBot POE Splitter for connecting both Ethernet cable and power supply simultaneously
- Solar Cell Panel More details
- 12V Power Adapter



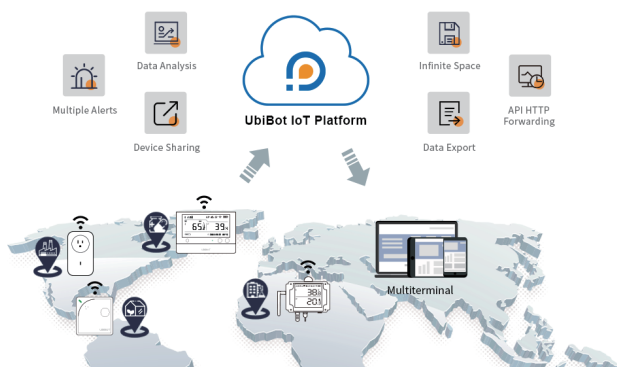
#### NOTE:

- Only one of each type of probe can be connected at a time.
- For GS1-AETH1RS-1DS, Wind Speed Sensor is incompatible with DS18B20-Audio Temperature Probe.

### SPECIFICATIONS

Technical specifications	
Temperature	-20°C to 60°C( -4°F to 140°F)
Humidity	10% to 90%, No condensation
Ambient light	0-83k lux
Accuracy	Temperature $\pm 0.3$ °C, Humidity $\pm 3\%$ , Ambient light $\pm 2\%$
Memory	300,000 sensor records
Network connection	
WiFi	2.4GHz or 2.4/5GHz, channels 1-13 (5GHz WiFi NOT supported)
Ethernet	RJ45 Ethernet cable
Ethernet switch	100 Mbps or lower
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; 1 x RJ45
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-AETH1RS-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**