



PRODUCT CATALOGUE

Making Sense of Your World

UbiBot® Wireless Multi-Sensor Device Series



UBIBOT WS1

UbiBot® WS1 has a small size and easy to take. It has built-in temperature, humidity and ambient light sensors. 1*DS18B20 temperature probe can be externally connected. With WiFi connection, WS1 gives you peace of mind in various settings including smart home, office, food, medical, agriculture, warehouse monitoring.

- **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 ± 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)

- **Physical specifications**

Materials : Flame resistant ABS & PC

Dimensions 65*65*16.5mm

Weight : 31.8g $\pm$ 3g

Colour : White

Ports : 1*Mini USB, 1*Micro USB

Power Source : 2 x AA batteries /Micro USB (5V/2A)

- **External probes**

1*DS18B20 temperature probe

- **List of one single pack**

1 x WS1 device; 1 x manual book; 1 x USB cable; 2 x pieces of double side adhesive tape

UbiBot® Wireless Multi-Sensor Device Series



UBIBOT WS1 PRO WiFi Version

UbiBot® WS1 Pro WiFi version supports WiFi connection, with clear LCD display.

It has two on-board USB ports, can connect 2 * DS18B20 temperature probes, and can be connected simultaneously with the external power source by a USB splitter.

The lower USB port supports RS485 interface probes, such as TH30S-B temperature & humidity probe, Soil probe, PT-100, etc., while only one can be connected at a time.

- **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 ± 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)

- **Physical specifications**

Materials : Flame resistant ABS + PC

Dimensions : 12.6*8.6*2.25cm

Weight : 143g $\pm$ 3g

Colour : White

Screen : 10.4 x 5cm (4.4")

Ports : 2 x Micro USB; USB 2 is embedded with RS485 interface

Power Source : 4 x AA batteries /Micro USB (5V/2A)

- **External probes**

Supports 2*DS18B20 and 1*TH30S-B or Soil probe or PT-100 or wind speed sensor (a splitter may be needed)

- **List of one single pack**

1 x WS1 Pro Wi-Fi version device; 1 x manual book; 1 x USB cable; 1 x stand

UbiBot® Wireless Multi-Sensor Device Series



UBIBOT WS1 PRO SIM Version

UbiBot® WS1 Pro Sim Version supports WiFi and 4G 2-way connection, with clear LCD display. It has two on-board USB ports, can connect 2 * DS18B20 temperature probes, and can be connected simultaneously with the external power source by a USB splitter. The lower USB port supports RS485 interface probes, such as TH30S-B temperature & humidity probe, Soil probe, PT-100, etc., while only one of each type can be connected at a time.

- **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 ± 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)

Mobile Networks:

LTE FDD: B1/ B3 /B5/ B8; LTD TDD: B34/ B38/ B39/ B40/ B41; WCDMA: B1/ B8; TD-SCDMA: B34/ B39; CDMA: BC0; GSM Band: 900/1800 MHz

- **Physical specifications**

Materials : Flame resistant ABS + PC

Dimensions : 12.6*8.6*2.25cm

Weight : 143g $\pm$ 3g

Colour : White

Screen : 10.4 x 5cm (4.4")

Ports : 2 x Micro USB; USB 2 is embedded with RS485 interface

Power Source : 4 x AA batteries /Micro USB (5V/2A)

- **External probes**

Supports 2*DS18B20 and 1*TH30S-B or Soil probe or PT-100 or wind speed sensor (a splitter may be needed)

- **List of one single pack**

1 x WS1 Pro Sim version device; 1 x UbiBot Global Sim Card; 1 x manual book; 1 x USB cable; 1 x stand

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT GS1 - A

UbiBot® industrial-grade GS1-A supports WiFi connection, with built-in temperature and humidity sensor, can not support any external probe. GS1-A is industrial grade, IP65 dustproof and waterproof which makes it can adapt with harsh environment.



- **Technical specifications**

Temperature : -20°C to 60°C(-4°F to 140°F)

Humidity : 10% to 90%, No condensation

Accuracy : Temperature ± 0.3 °C, humidity $\pm 3\%$

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 $\pm$ 3g

Colour : White

Screen : 4"

Ports : 1*Type-C

Power Source : Internal Lithium batteries (2900 mAh); Type C 5V (USB cable included); DC 12V (not included)

- **External probes**

Not support any external probe

- **List of one single pack**

1 x GS1-A device; 1 x External antenna; 1 x Manual book; 1 x Type-C USB cable

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT GS1 - AL4G1RS



UbiBot® industrial-grade GS1-AL4G1RS supports WiFi and 4G connection, with built-in temperature, humidity and ambient light sensors, supporting RS485 external probes, only one of each type can be connected at a time.

GS1-AL4G1RS is industrial grade, IP65 dustproof and waterproof which makes it can adapt with harsh environment.

- **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 ± 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)

Mobile Networks:

LTE FDD: B1/ B3 /B5/ B8; LTD TDD: B34/ B38/ B39/ B40/ B41; WCDMA: B1/ B8; TD-

SCDMA: B34/ B39; CDMA: BC0; GSM Band: 900/1800 MHz

- **Physical specifications**

Materials : Flame resistant ABS + PC

Dimensions : 11.5 x 9 x 5.5 cm

Weight : 450g $\pm$ 3g

Colour : White

Screen : 4"

Ports : 1*Type-C; 1*3.5mm Audio

Power Source : Internal Lithium batteries (2900 mAh); Type C 5V (USB cable included); DC 12V (not included)

- **External probes**

Support TH30S-B, Soil probe, PT-100, wind speed sensor, CO2 probe;
only one of each type can be connected at a time

- **List of one single pack**

1 x GS1-AL4G1RS device; 1 x UbiBot Global Sim Card; 1 x External antenna; 1 x Manual book; 1 x Type-C USB cable

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT GS1 - AL4G1RS(1DS)

UbiBot® industrial-grade GS1-AL4G1RS(1DS) supports WiFi and 4G connection, with built-in temperature, humidity and ambient light sensors, supporting RS485 and DS18B20 probe, only one of each type can be connected at a time; wind speed sensor is incompatible with DS18B20.

GS1-AL4G1RS is industrial grade, IP65 dustproof and waterproof, adapting with harsh environment.

- **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 ± 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)

Mobile Networks:

LTE FDD: B1/ B3 /B5/ B8; LTD TDD: B34/ B38/ B39/ B40/ B41; WCDMA: B1/ B8; TD-SCDMA: B34/ B39; CDMA: BC0; GSM Band: 900/1800 MHz

- **Physical specifications**

Materials : Flame resistant ABS + PC

Dimensions : 11.5 x 9 x 5.5 cm

Weight : 450g $\pm$ 3g

Colour : White

Screen : 4"

Ports : 1*Type-C; 1*3.5mm Audio

Power Source : Internal Lithium batteries (2900 mAh); Type C 5V (USB cable included); DC 12V (not included)

- **External probes**

Support TH30S-B, Soil probe, PT-100, wind speed sensor, CO2 probe, DS18B20; only one of each type can be connected at a time; wind speed sensor is incompatible with DS18B20

- **List of one single pack**

1 x GS1-AL4G1RS(1DS) device; 1 x UbiBot Global Sim Card; 1 x External antenna; 1 x Manual book; 1 x Type-C USB cable

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT GS1 - PL4G1RS

UbiBot® industrial-grade GS1-PL4G1RS supports WiFi and 4G connection, also embedded with positioning module for real-time positioning. An external 'BD GPS Active Antenna' is connected to receive satellite signal.

Built-in temperature, humidity and ambient light sensors, supporting RS485 external probes, only one of each type can be connected at a time.

- **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 ± 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)

Mobile Networks:

LTE FDD: B1/ B3 /B5/ B8; LTD TDD: B34/ B38/ B39/ B40/ B41; WCDMA: B1/ B8;

TD-SCDMA: B34/ B39; CDMA: BC0; GSM Band: 900/1800 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 $\pm$ 3g

Colour : White

Screen : 4"

Ports : 1*Type-C; 1*3.5mm Audio

Power Source : Internal Lithium batteries (2900 mAh); Type C 5V (USB cable included); DC 12V (not included)

- **External probes**

Support TH30S-B, Soil probe, PT-100, wind speed sensor, CO2 probe; only one of each type can be connected at a time

- **List of one single pack**

1 x GS1-PL4G1RS device; 1 x UbiBot Global Sim Card; 1 x External BD GPS Active Antenna; 1 x Manual book; 1 x Type-C USB cable

UbiBot® Wireless Muti-Sensor Device Series

UBIBOT GS1 - PL4G1RS(1DS)

UbiBot® industrial-grade GS1-PL4G1RS(1DS) supports WiFi and 4G connection, also embedded with positioning module for real-time positioning. An external 'BD GPS Active Antenna' is connected to receive satellite signal.

Built-in temperature, humidity and ambient light sensors, supporting RS485 and DS18B20 external probes, only one of each type can be connected at a time; wind speed sensor is incompatible with DS18B20.

- **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 ± 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)

Mobile Networks:

LTE FDD: B1/ B3 /B5/ B8; LTD TDD: B34/ B38/ B39/ B40/ B41; WCDMA: B1/ B8;

TD-SCDMA: B34/ B39; CDMA: BC0; GSM Band: 900/1800 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 $\pm$ 3g

Colour : White

Screen : 4"

Ports : 1*Type-C; 1*3.5mm Audio

Power Source : Internal Lithium batteries (2900 mAh); Type C 5V (USB cable included); DC 12V (not included)

- **External probes**

Support TH30S-B, Soil probe, PT-100, wind speed sensor, CO2 probe, DS18B20;

only one of each type can be connected at a time; wind speed sensor is incompatible with DS18B20

- **List of one single pack**

1 x GS1-PL4G1RS(1DS) device; 1 x UbiBot Global Sim Card; 1 x External BD GPS Active Antenna; 1 x Manual book; 1 x Type-C USB cable

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT GS1 - AETH1RS

UbiBot® GS1-AETH1RS supports WiFi and Ethernet connection; the RJ45 network cable port can be more stable, and solve the transmission instability. Built-in temperature, humidity and ambient light sensors; supporting RS485 external probes, only one of each type can be connected at a time.



- **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 ± 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 $\pm$ 3g

Colour : White

Screen : 4"

Ports : 1*Type-C; 1*3.5mm Audio; 1*RJ45

Power Source : Internal Lithium batteries (2900 mAh); Type C 5V (USB cable included); DC 12V (not included)

- **External probes**

Support TH30S-B, Soil probe, PT-100, wind speed sensor, CO2 probe;
only one of each type can be connected at a time

- **List of one single pack**

1 x GS1-AETH1RS device; 1 x External antenna; 1 x Manual book; 1 x Type-C USB cable

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT GS1 - AETH1RS (1DS)

UbiBot® GS1-AETH1RS(1DS) supports WiFi and Ethernet connection; the RJ45 network cable port can be more stable, and solve the transmission instability. Built-in temperature, humidity and ambient light sensors; supporting RS485 and DS18B20 external probes, only one of each type can be connected at a time; wind speed sensor is incompatible with DS18B20.



- **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 ± 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 $\pm$ 3g

Colour : White

Screen : 4"

Ports : 1*Type-C; 1*3.5mm Audio; 1*RJ45

Power Source : Internal Lithium batteries (2900 mAh); Type C 5V (USB cable included); DC 12V (not included)

- **External probes**

Support TH30S-B, Soil probe, PT-100, wind speed sensor, CO2 probe, DS18B20; only one of each type can be connected at a time; wind speed sensor is incompatible with DS18B20

- **List of one single pack**

1 x GS1-AETH1RS(1DS) device; 1 x External antenna; 1 x Manual book; 1 x Type-C USB cable

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT GS2-EL

UbiBot® GS2-EL supports WiFi connection with the built-in ambient light sensor. It can connect with DS18B20 external temperature probe, EC and PH probe. GS2 is industrial grade, IP65 dustproof and waterproof which makes it with a variety of harsh environment.



- **Technical specifications**

External DS18B20 Temperature Probe : -55°C~+ 125°C

Ambient light : 0-83k lux

PH: 0 - 14PH

EC: 2-20000µs/cm

Accuracy : Temperature $\pm 0.5^{\circ}\text{C}$ (-10~85°C); ambient light $\pm 2\%$;
PH $\pm 0.1\text{PH}$; EC $\pm 2 \text{ F.S}$

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 $\pm$ 3g

Colour : White

Screen : 4"

Ports : 1*Type-C; 1*3.5mm Audio (DS18B20); 1*EC; 1*PH

Power Source : Internal Lithium batteries (2900 mAh); Type C 5V (USB cable included); DC 12V (not included)

- **External probes**

1 x DS18B20 temperature probe; 1 x PH probe; 1 x EC probe

- **List of one single pack**

1 x GS2 device; 1 x EC probe; 1 x PH probe; 1 x DS18B20 temperature probe; 1 x External antenna; 1 x Manual book; 1 x Type-C USB cable

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT GS2-EL4G

UbiBot® GS2-EL4G supports WiFi and 4G 2-Way connection with the built-in ambient light sensor. It can connect with DS18B20 external temperature probe, EC and PH probe. GS2 is industrial grade, IP65 dustproof and waterproof which makes it with a variety of harsh environment.



- **Technical specifications**

External DS18B20 Temperature Probe : -55°C~+ 125°C

Ambient light : 0-83k lux

PH: 0 - 14PH

EC: 2-20000µs/cm

Accuracy : Temperature $\pm 0.5^{\circ}\text{C}$ (-10~85°C); ambient light $\pm 2\%$;

PH $\pm 0.1\text{PH}$; EC $\pm 2 \text{ F.S}$

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/ B3 /B5/ B8; LTD TDD: B34/ B38/ B39/ B40/ B41; WCDMA: B1/ B8; TD-

SCDMA: B34/ B39; CDMA: BC0; GSM Band: 900/1800 MHz

- **Physical specifications**

Materials : Flame resistant ABS + PC

Dimensions : 11.5 x 9 x 5.5 cm

Weight : 450g $\pm$ 3g

Colour : White

Screen : 4"

Ports : 1*Type-C; 1*3.5mm Audio (DS18B20); 1*EC; 1*PH

Power Source : Internal Lithium batteries (2900 mAh); Type C 5V (USB cable included); DC 12V (not included)

- **External probes**

1 x DS18B20 temperature probe; 1 x PH probe; 1 x EC probe

- **List of one single pack**

1 x GS2 device; 1 x EC probe; 1 x PH probe; 1 x DS18B20 probe; 1 x UbiBot Global Sim Card, 1 x External antenna; 1 x Manual book; 1 x Type-C USB cable

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT MS1

UbiBot® MS1 remote infrared motion sensor, up to 12 meters detection distance, supporting WiFi connection, accurately sense the slight movement of people or animals, and sync all the data to the UbiBot® IoT Platform.



- **Technical specifications**

Detection distance : 12 meters

Detection angle : vertical 40 degrees, horizontal 105 degrees

Operating temperature : -10°C to 50°C(14°F to 122°F)

Operating humidity : ≤ 90% RH, No condensation

Memory : 300,000 sensor records

- **Network connection**

WiFi : 2.4GHz or 2.4/5GHz, channels 1-13 (5GHz WiFi NOT supported)

Bluetooth : BT4.2, Classic BT&BLE supported

- **Physical specifications**

Materials : Flame resistant ABS + PC

Dimensions : 80 x 80x 48 mm

Colour : White

Ports : 1 * Micro USB

Power Source : Micro USB (5V)

- **List of one single pack**

1 x MS1 device; 1 x Micro USB cable; 1 x Manual book; 2 x Screws

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT MS1P

UbiBot® MS1P remote infrared motion sensor, up to 12 meters detection distance, supporting WiFi and RJ45 Ethernet connection, accurately sense the slight movement of people or animals, and sync all the data to the UbiBot® IoT Platform.



- **Technical specifications**

Detection distance : 12 meters

Detection angle : vertical 40 degrees, horizontal 105 degrees

Operating temperature : 0°C to 50°C(24°F to 122°F)

Operating humidity : ≤ 70% RH, No condensation

Memory : 300,000 sensor records

- **Network connection**

WiFi : 2.4GHz or 2.4/5GHz, channels 1-13 (5GHz WiFi NOT supported)

Bluetooth : BT4.2, Classic BT&BLE supported

POE standard : IEEE 802.3-2005

- **Physical specifications**

Materials : Flame resistant ABS + PC

Dimensions : 80 x 80x 48 mm

Colour : White

Ports : 1 * Micro USB; 1 * RJ45

Power Source : Micro USB (5V) / POE power supply (5V) / AC power supply

- **List of one single pack**

1 x MS1P device; 1 x Micro USB cable; 1 x Manual book; 1 x Pluggable Terminal Block Connector; 2 x Screws

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT SP1-WiFi

UbiBot® SP1-WiFi can connect a variety of external probes and can be connected to the Internet via WiFi. Through the platform, remote linkage control can be achieved basing on the data collected.



- **Technical specifications**

Working Voltage: 110V - 240V AC

Maximum Current: 16A

Maximum Power: 3.5kW

Power dissipation : $\leq 0.1W$

Measuring Accuracy : $\pm 0.01A$, $\pm 0.1V$, $\pm 0.1W$

Working Environment : $-10^{\circ}C$ to $60^{\circ}C$ ($14^{\circ}F$ to $140^{\circ}F$)

- **Network connection**

WiFi : 2.4GHz or 2.4/5GHz, channels 1-13 (5GHz WiFi NOT supported)

- **Physical specifications**

Materials : Flame resistant ABS + PC

Weight : $50g \pm 3g$

Dimensions : 6.4 x 11.7 x 3.5 cm

Colour : White

Ports : 1 * DS18B20 Audio; 1 * RS485 Audio

Plug Standard : Compatible with Europe, UK, USA, France, Australia, China standards

- **List of one single pack**

1 x SP1-WiFi device; 1 x Manual book

UbiBot® Wireless Multi-Sensor Device Series

UBIBOT SP1-SIM

UbiBot® SP1- Sim can connect a variety of external probes and can be connected to the Internet via WiFi and 4G connection. Through the platform, remote linkage control can be achieved basing on the data collected.



- **Technical specifications**

Working Voltage: 110V - 240V AC

Maximum Current: 16A

Maximum Power: 3.5kW

Power dissipation : $\leq 0.1W$

Measuring Accuracy : $\pm 0.01A$, $\pm 0.1V$, $\pm 0.1W$

Working Environment : $-10^{\circ}C$ to $60^{\circ}C$ ($4^{\circ}F$ to $140^{\circ}F$)

- **Network connection**

WiFi : 2.4GHz or 2.4/5GHz, channels 1-13 (5GHz WiFi NOT supported)

Mobile Networks:

LTE FDD: B1/ B3 /B5/ B8; LTD TDD: B34/ B38/ B39/ B40/ B41; WCDMA: B1/ B8; TD-

SCDMA: B34/ B39; CDMA: BC0; GSM Band: 900/1800 MHz

- **Physical specifications**

Materials : Flame resistant ABS + PC

Weight : 50g $\pm$ 3g

Dimensions : 6.4 x 11.7 x 3.5 cm

Colour : White

Ports : 1 * DS18B20 Audio; 1 * RS485 Audio

Plug Standard : Compatible with Europe, UK, USA, France, Australia, China standards

- **List of one single pack**

1 x SP1-Sim device; 1 x UbiBot Global Sim Card; 1 x Manual book

UbiBot® Wireless Multi-Sensor Device Series

DS18B20

External temperature probe DS18B20 is with Micro USB plug, can be connected with WS1, WS1 Pro. With IP68 and stainless steel it can be used in extreme environments, such as liquid, freezers, fridges, cold storage, etc. And the flat cable version is especially designed for freezers and fridges, which won't block the door's closing.



- **Technical specifications**

Measuring Temperature Range : -55°C to +125°C (-67°F to +257°F)

Accuracy : $\pm 0.5^{\circ}\text{C}$ (over the range -10°C to +85°C)

Connector : Micro USB

Protocol : Single Bus protocol

- **Physical specifications**

Materials : Stainless steel

Size of Stainless Steel Shell : 6mm diameter x 50mm long

Cable Length : 300cm or 500cm

IP Level : IP68

Working Voltage : 3-5.5V

Power dissipation : $\leq 0.1\text{W}$

UbiBot® Wireless Multi-Sensor Device Series

TH30S-B

External temperature and humidity probe TH30S-B is our self-developed product. It's produced and assembled in our own factory. It has exquisite appearance and high measurement accuracy. There is Micro USB plug and 3.5mm audio plug, can be connected with WS1 Pro and GS1 series.



- **Technical specifications**

Measuring Temperature Range : -40°C to +80°C (-40°F to +176°F)

Measuring Humidity Range : 0 to 100% RH

Accuracy : ±0.3°C, resolution 0.1°C
±2%RH, resolution 0.1%RH
(in the condition of 25°C, 60%RH)

Connector : Micro USB, 3.5mm Audio

Output Interface : RS485

Communications Protocol : Modbus

- **Physical specifications**

Materials : PE + Stainless steel

Size of probe : 7.5*1.5cm (diameter)

Cable Length : 5 meters (Micro USB); 3 meters (Audio plug)

IP Level : IP42

Working Voltage : DC 5-12V

power dissipation : ≤0.1W

UbiBot® Wireless Multi-Sensor Device Series

Soil Temp & Moisture Probe

The soil temperature and moisture probe measures soil moisture content based on frequency domain reflection method. It can connect with WS1 Pro and GS1 series. It is widely used in homes, offices, farms and other places where soil temperature and moisture need to be measured.



- **Technical specifications**

Measuring Temperature Range : $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$

Measuring Moisture Range : $0 \sim 100\%$

Accuracy : $< \pm 0.4^{\circ}\text{C}$
 $\pm 3\%$ ($0-50\%$) ; $\pm 5\%$ ($> 50\%$)

Connector : Micro USB, 3.5mm Audio

Measuring Theory : Frequency Domain (FDR)

Output Interface : RS485

Communications Protocol : Modbus

- **Physical specifications**

Materials : ABS + Stainless steel

Steel Point Length : 80mm

Cable Length : 3 meters

Working Voltage : DC 5-12V

Standby Current : $\leq 20\text{mA}$

UbiBot® Wireless Multi-Sensor Device Series

CO2 Probe

The carbon dioxide probe is an industrial-grade probe with high integration. It has super stability and anti-interference ability, strong product protection performance and first grade lightning protection, which can be used in agricultural industry and other occasions like laboratories, pharmacies, workshops, warehouses, museums, offices, and other places where carbon dioxide concentration needs. It can only be connected with GS1 series.

- **Technical specifications**

Measuring Range : 0~10000ppm

Accuracy : CO2 : (30ppm+3%) Accuracy(max) 0.1ppm

Connector : 3.5mm Audio

Output Interface : RS485

Communications Protocol : Modbus

- **Physical specifications**

Materials : ABS

Dimensions : 65*46*29mm

Cable Length : 3 meters

Working Voltage : DC 5-12V

Standby Current : ≤20mA

UbiBot® Wireless Muti-Sensor Device Series

PT 100

PT 100 Industrial-grade Temperature Probe is made of specially treated platinum wire wrapped around the inner surface of the probe. It can reflect the actual temperature quickly and accurately. The buttcock line is made of high temperature zone shielded fiberglass material, with a temperature range of up to 200 degrees Celsius. PT100 adopts the chip imported from Germany with high stability, and adopts three-wire connection mode to ensure the accuracy and anti-interference ability. It can connect with WS1 Pro and GS1 series.

- **Technical specifications**

Monitoring Temperature Range : -200 to 400°C

Buttcock Line Temperature Range : -30~200°C

Accuracy : $\pm (2\% + 1^{\circ}\text{C})$

Connector : Micro USB, 3.5mm Audio

Output Interface : RS485

Communications Protocol : Modbus

- **Physical specifications**

Materials : Stainless steel

Size of Stainless Steel Probe : 5mm diameter x 200mm long

Cable Length : 300cm

IP Level : IP68

Working Voltage : DC 5-12V

power dissipation : $\leq 0.1\text{W}$

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Micro-USB Cable Splitter

Connector : Micro USB Male to two Female

Color : white

Cable Length : 18.5cm

It is used for WS1 and WS1 Pro, can connect to those probes with Micro USB plug.



Audio Cable Splitter

Connector : Audio Male to two Female

Color : black

Cable Length : 36cm

It is used for GS1 series, can connect to those probes with 3.5mm audio plug.

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Support GS1



Audio Plug Splitter,
1 male to 6 females

Audio Cable Splitter 1 TO 6

Connector : Audio Male to 6 Female

Color : black

Cable Length : 32cm

It is used for GS1 series, can connect to those probes with 3.5mm audio plug.

Support GS1



Audio plug extender

EXTERNAL PROBE EXTENDER

Connector : 3.5mm audio

Color : black

Cable Length : 5m

It is used for GS1 series, can connect to those probes with 3.5mm audio plug.

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POE SPLITTER

Output: 12V DC power output (12V 1A, 13w)10/100Mbps ethernet data

Input: IEEE 802.3af (DC 37-57V,15.4W) from poe switch or poe injector

Application: GS1-AETH1RS



SOLAR CELL PANEL

Working Voltage : 5V

Working Current : 2A

Operating Temperature : -20°C - 60°C

Waterproof : IP67

Cell Conversion Efficiency : 18.5%

Dimensions : 340 x 240 x 17mm ± 0.5

It is used for GS1 series.

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WIND SPEED SENSOR

Measuring Range : 0-30m/s

Measurement Accuracy : $\pm(0.3+0.03V)$ m/s,
"V" means wind speed

Response Time : <1s

Working Voltage : 5V - 24V DC

Stabilization Time : <1s

Cable Length : 3m

Operating Temperature Range : -30° C to
+70° C (-22° F to +158° F)

Operating Humidity Range : 15 - 85% RH

Connector : Micro USB, 3.5mm Audio

Application: WS1 Pro and GS1 series

Support GS1



UbiBot Magnetic Strobe Light Alarm

Plug and play! Waterproof and dustproof! Flashing and large sound

STROBE LIGHT & SIREN ALARM

Dimensions : 94 x 178 x 75mm ± 0.5

It is used for GS1 Customised version.

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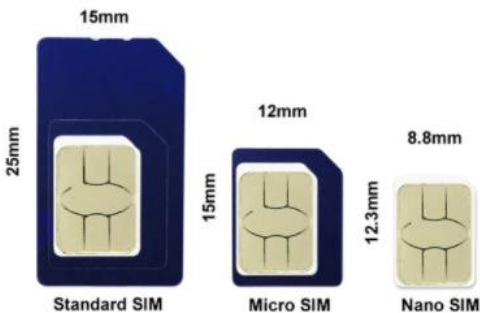


USB-RS485 ADAPTER

Dimensions : 63 x 36 x 20 mm

Interface : Micro USB, audio jack, UART

USB-RS485 Adapter has two input ports; one is Micro USB and the other is audio jack. Connect the probe to converter either through Micro USB interface or audio interface, the probe can be detected on the software - UbiBot Calibration Tool. Then you can calibrate the RS485 probe according to the on-screen instructions.



UBIBOT GLOBAL SIM

SIM card format : Standard / Micro / Nano

Top-up options : On Ubibot platform only

APN : super

SIM validity : No extra charge after a few months of arrearage

It's mainly designed for Ubibot series devices, such as GS1-AL4G1RS, WS1Pro WiFi and SIM version, Smart Plug, etc. It covers almost a hundred of countries and regions around the world. It also supports other IoT devices, not only Ubibot.