



## connecting to Data Loggers ...

Measuring devices e.g. sensors and accessories are as important as a Data Logger.

It provides reliable and accurate data source for monitoring.

**Specifications:**

- 1 x temperature sensor (indoor type)
- 1 x temperature sensor (submersible type)
- 1 x humidity sensor
- 6 x high precision analog input channels
- 1 x RS485 Port (Modbus support)
- 10 x digital input or 6 x pulse channels
- 4 x digital relay output
- Expandable extra:
  - 6 x digital input
  - 6 x analog input

### Tracking

- \* Environmental Temperature, Humidity
- \* River Temperature
- \* Wind Speed, Wind Direction
- \* Rain Level
- \* CO2 Content
- \* Water Flow

### Special points of interest:

- All sensors, transducers and accessories are certified to work with 3gtrack data loggers
- Some models of data loggers are designed dedicatedly to measuring devices in this catalogues
- Please specify your application or ask our engineers' advice for recommended models

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Source the manufacturer's certified sensors or measuring devices for better compatibility and data accuracy

### GS828L2 Environmental Monitoring GPRS Data Logger

- \* Temperature & Humidity Data Logging
- \* Upload Data via GPRS and SMS on schedule or alarm triggered
- \* Programmable data logging and upload interval
- \* Alert user when temperature or humidity is high/low
- \* Support other sensors data logging and upload
- \* Numerous Alarm Input, Analog, Pulse Channel, Relay Control
- \* Internal power output supports power saving mode



Steel Housing  
Temperature Sensor

#### Temperature Sensor (Submersible type)

This sensor can be directly connected to GS828L2 Data Loggers.

It will be powered by the data logger internal voltage output.

In sleep mode, the power will be turned off automatically by the data logger to save energy.

Sensor: DS80B20  
Measuring Range: -50 ~ 125 °C  
Accuracy: 0.1 °C  
Operating Voltage: 5VDC

Enclosure: Steel Housing



All-in-One  
Temperature & Humidity Sensor

#### Temperature & Humidity Sensor

This device is built with temperature and humidity sensors in one housing.

It can be directly connected to GS828L2 Data Loggers.

It will be powered by the data logger internal voltage output.

In sleep mode, the power will be turned off automatically by the data logger to save energy.

Temperature Sensor: DS80B20  
Measuring Range: -50 ~ 125 °C  
Accuracy: 0.1 °C  
Humidity Sensor: CHM-01A  
Measuring Range: 0 ~ 100% RH  
Accuracy: +- 5% RH  
Operating Voltage: 5VDC



CO2 Content Sensor

#### CO2 Content Sensor

This device is built with CO2 sensors in weather proof housing.

It can be directly connected to AD channel of GS828L2 Data Loggers.

It will be powered by the data logger internal voltage output.

In sleep mode, the power will be turned off automatically by the data logger to save energy.

Measuring Range: 0 ~ 5000ppm  
Resolution: +/- 10ppm  
Accuracy: +/- 5%  
Operating Voltage: 24VDC  
Output: 4~20mA  
Enclosure: PVC IP65



WS100 Wind Speed Sensor



WD100 Wind Direction Sensor

**Wind Speed & Direction Sensor**

**Specification**

Range  
 Accuracy  
 Resolution  
 Start Up Wind Speed  
 Output  
 Transducer Output  
 Operation Voltage  
 Max. Rating  
 Operation Temperature  
 Weight

**Wind Speed Sensor**

0~45m/s  
 +/- (0.3 + 0.03V) m/s  
 0.1 m/s  
 < 0.5 m/s  
 Square Wave Pulse  
 4 ~ 20mA  
 DC 5V or 12V  
 10mA  
 -40 ~ 50 °C  
 < 0.5kg

**Wind Direction Sensor**

0~360°  
 0.1% Linear  
 1°  
 < 0.8 m/s  
 0~5k W (+- 15%)  
 4 ~ 20mA  
 DC 5V or 12V  
 10mA  
 -40 ~ 50 °C  
 < 0.5kg

These two devices can be directly connected to the AD channel of GS828L2 GPRS Data Loggers.

**It will then provides one single solution of measuring temperature/humidity/rain fall/wind speed/wind direction for environmental or weather station monitoring.**



RST323 Tipping Bucket Rain Gauge

**Tipping Bucket Rain Gauge**

**Specification**

Sensor type:  
 Output:  
 Switch:  
 Sensitivity:  
 Accuracy:  
 Contact rating:  
 Size:  
 Mounting:  
 Weight/shipping:

Tipping bucket  
 0.1 second switch closure  
 Sealed reed switch  
 1 tip per 0.01", 1 tip per 1 mm, or  
 1 tip per 0.25 mm  
 ± 2% up to 2"/hr  
 3 watts, 0.25 amps, 24 Vdc  
 8" dia x 15" high  
 3 legs, 1/4" diameter bolt holes on  
 9-1/2" diameter bolt circle  
 4 lbs/5.5 lbs

It can be directly connected to the AD channel of GS828L2 GPRS Data Loggers.



Solar Panel Battery Power Pack

**Solar Power**

Solar Panel:  
 Solar Charger:  
 Battery:

20W, 550x340x28 mm, 2.4kg  
 Special Aluminum Frame Design  
 12V Output, 20A max.  
 Lead acid type, 14.4V

It can provide continuous power supply to GS828L2 GPRS Data Loggers.



Magnetic Type

### External GSM Antenna

#### (Magnetic type)

This external antenna provides excellent GSM signal reception. It can be directly connected to GS828L2 GPRS Data Loggers.



Adhesive Type

#### (Adhesive Type)

This external antenna can be installed outdoor for strong GSM signal reception.

It can be connected directly to GS828L2 GPRS Data Logger.

More sensors, transducers or meters can be connected with GS828L2 for different applications.



Power Meter  
RS485 Type

### Other sensors

1. Water Flow Meter (pulse type, or RS485 type)
2. Power Meter
3. Current/Voltage/Power Transducer
4. Water Level Transducer
5. Soil Humidity Sensor

Water Flow Meter  
Pulse or RS485 Type



Soil Humidity Sensor

Send you inquiry to local dealer for complete package of data logger with sensors.

Current/Voltage/  
Power Transducer



Level Transducer