



Inquiry Onsite value with a FREE Call or SMS!

High-Low Threshold alarm with SMS text Message alert!

Interval Report Status to Your Mobile Phone by SMS!

# GSM/GPRS/3G/4G/Cloud Temperature & Humidity & Voltage & Power Failure Alarm



Temperature & Humidity &  
Voltage & Power Failure Alarm

## Data Sheet

Ver 1.0

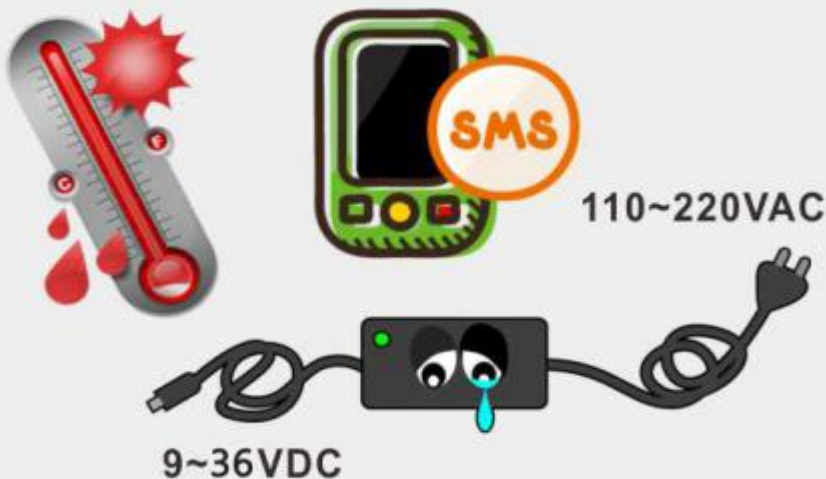
RTU5029S

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# Temperature & Humidity & Voltage & Power Status Alarm

## 【Model List】

Model	GSM/3G/4G	Description	Input/Output Type	Power Supply
RTU5029SA	Optional	Phase Loss Monitoring Alarm	3 Phase Input, 12VDC Output	9-36V DC
RTU5029SB		Phase Loss Monitoring Alarm	Single Phase Input , 12VDC Output	

## 1. Brief introduction

RTU5029S provide 1 input for temperature, humidity, power voltage, power status monitoring and alarm. When the temperature, humidity, power voltage exceed high threshold or low threshold value, will send SMS alert to up to 10 preset mobile phone immediately.

Just dial from authorized user number, the Monitor Alarm unit will reject at the first “Ring”, no communication cost, and then return the current temperature, humidity, power status or voltage. It can report current status interval or daily. Moreover, it can also support Modbus RTU Over TCP and Modbus TCP to connect to cloud platform, then monitor the current status in real time through GSM/3G/4G network.

RTU5029S Monitor Alarm unit can be used for temperature, humidity, DC voltage, 3 phase power status, single phase power status monitoring and alarm, suitable for classrooms, public places, hospitals, stations, Food warehouses, offices, factories, libraries, laboratories, etc., and any place that requires and supports monitoring.

## 2. Safety Directions



### Safe Startup

Do not use GSM unit when using GSM equipment is prohibited or might bring disturbance or danger.



### Interference

All wireless equipment might interfere network signals of GSM unit and influence its performance.

## 3. Standard Packing List

Monitor Alarm unit X 1; Antenna X 1; AC/DC adaptor( DC12V 1.5A ) X1 ;User manual X 1.

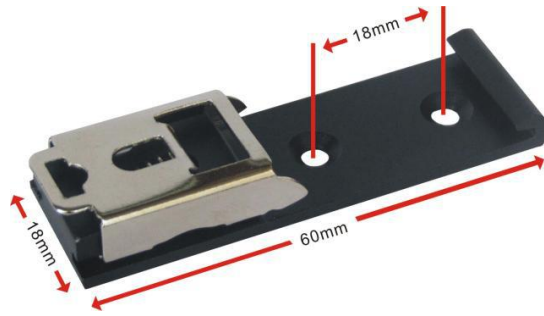
*Note: The package does not include any SIM card.*

### Optional:

AM230x Temperature & Humidity Sensor, cable length 1m, 5m, 20m

SR-x Siren

DIN 35mm Standard DIN rail fixed Bracket



## 4. Mainly Features

- GSM/GPRS/3G/4G network communication, can be operated from anywhere, no distance;
- Multiple applications: temperature, humidity, power supply voltage, 3 phase power status, single-phase power status, etc.;
- Inbuilt MCU monitoring power supply input voltage value, measure range is 0~36V, no need additional sensor to save cost;
- Up to 10 authorized phone numbers, 5 can be used to receive SMS alarm, and 5 can be used to call and SMS while alarm occurrence;
- Can set timer report and every x hours automatically send its status/value to the first authorized number;
- Support remotely read historic data via SMS;
- Rechargeable backup battery inside can last 8 hours;
- Modular structure design, replace a module can upgrade the network from 2G to 3G/4G or 3G to 4G;
- Compatible wall installation and DIN35mm industrial rail installation;
- Support Modbus RTU Over TCP and Modbus TCP, can be connected to cloud platform.

## 5. Technical specifications

Item	Reference Scope
DC Power supply	Standard adapter: 12VDC, Range 9~36VDC
Power consumption	Standby: 12V/20mA; Working Max: 12V/150mA
GSM/3G/4G	GSM frequency: 850/900/1800/1900MHz 3G/4G: Optional: WCDMA/TDD-LTE/FDD-LTE
SIM interface	Support 3V SIM Card
External antenna	SMA Antenna interface, 50 Ohm, Gain: 3dB
Protocol	Modbus RTU Over TCP, Modbus TCP
Temp.&Hum Inputs	AM230x: temperature range -40°C~80°C, accuracy ±0.5°C, humidity range 0~99%RH, accuracy ±3%RH
Phase power input	Phase power voltage: 100~500VAC
Backup Battery	3.7V/900mAh, can last 8 hours
Working temperature	-10°C~60°C
Working Humidity	Relative humidity 95% (condensation free)
Exterior dimension	70mm * 88mm * 30mm



# Temperature&Humidity&Voltage &Power Status Alarm

The End!

Any questions please feel free to contact us .

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