

CWT5016 GPRS DATA LOGGER

Connect DS18B20 Temperature sensor



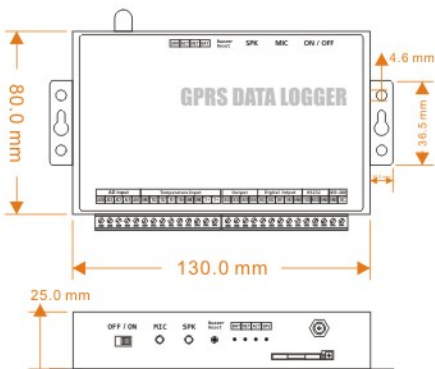
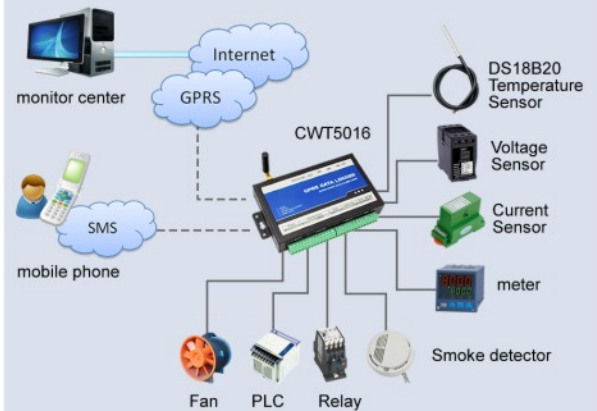
Reliable GPRS connection providing fast and cost-effective long-range wireless communication

Temperature monitor
Data acquisition
Alarm and control
Via GPRS or SMS

Specifications

DC Power supply	12-24V DC (Standard adapter: DC 12V/1.5A)
Power consumption	12V input Max. 150mA/Average 50mA
GSM frequency	Quad-frequency 900/1800/850/1900MHz
SIM Card	Supporting 3V&1.8V SIM Card
Antenna connector	50 Ω SMA connector
Communication interface	RS-232C
Working temperature	-30°C ~ +70°C
Working humidity	Relative humidity 95%
Temperature input	4 DS18B20 inputs (measure rang: -55°C ~ +125°C)
Digital input	4 Digital inputs (dry contact)
Analog input	4 Analog inputs (4~20mA or 0~5V)
Output	4 Drivable relay outputs (open-collector outputs)
Audio interface	3.5mm audio in and audio out
Exterior dimension	130×80×25mm
Weight	370G

Applications



Temperature input features

- DS18B20 special input, 4 channels
- Temperature rang: -55°C ~ +125°C
- Preset high and low level to alarm
- Output interlock when temp alarm
- Query temp via GPRS or sms
- Upload temperature on schedule

Advance features

- Adopted highly integrated industrial CPU
- Reliable performance with built-in double watchdog
- Low maintenance, 24×7 operation
- Internal battery and providing power cut off alarm
- Its internal 256KB memory logs more than 1000 records
- Flexible data logging interval (1 minute up to 24 hours)

How to setup

- Can be setup by free PC software via serial port
- Can be setup by phone number via sms commands

Where does GPRS RTU upload data to

- Support connects 4 servers, the servers must connect internet and have static public IP address or Dynamic Domain name
- GPRS Transmission base on TCP/IP
- Support modbus TCP protocol or CWT_IO protocol

When does GPRS RTU upload data

- GPRS RTU start up
- Temperature above preset rang
- Digital inputs are triggered
- AD input above preset rang
- the change of AD input above preset value
- On schedule(day/minute/second)
- Query by server

SMS features

- Preset 10 phone numbers(can be distributed authority)
- Time stamped in alarm or recover messages
- Support remote setting and control via sms commands

AD input				Temperature Input				Output				Digital Input		RS232		DC9-28V											
AG0	AI3	AI2	AI1	AI0	GND	TI3	TI2	TI1	TI0	GND	GND	T+	T-	DO3	DO2	DO1	DO0	DI3	DI2	DI1	DI0	GND	TXD	RXD	GND	DC	

4 AD inputs features

- Can preset normal range for AD input, upload data to server when out of the normal range.
- Current values can be query by server or sms
- Configurable alarm and recover SMS
- Support offset and gain

Digital inputs features

- Upload status to server when inputs are triggered
- Upload inputs status to server on schedule
- Remote query inputs status by GPRS or SMS
- Support SMS alarm
- Configurable alarm and recover sms

Relay output features

- Remote On/Off/Pulse output via GPRS or SMS
- Remote query output status by GPRS or SMS
- Can be activated by alarm
- Can be activated by call
- Can be activated on schedule