T20 User's manual

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Feature

Display

- OLED temperature humidity display
- Touch key switch data display

Data logger

- An Inside temperature and humidity sensor
- An external temperature probe
- 4000 temperature record-set (auto rollback)
- Flexible data logging interval (1 minute up to 24 hours)
- PC software export records

Alarm

- Configurable temperature&humidity low and high level to alarm
- HIGH-BRIGHTNESS RED LED LIGHT on panel
- Built-in alarm buzzer
- Power failure/recover alarm
- Support 2 wired inputs for alarm

Communications

SMS

- Preset 10 authorized phone numbers
- Configurable alarm/recover SMS
- Query current value by SMS
- Control relay by SMS
- Remote setting by SMS

GPRS

- TCP/IP connect 4 internet servers (IP or domain)
- Http post, Cwt_IO protocol, modbus tcp
- Realtime/logging upload data

Wi-Fi

- Realtime/logging upload data
- View data on APP
- Control relay on APP

Thermostat

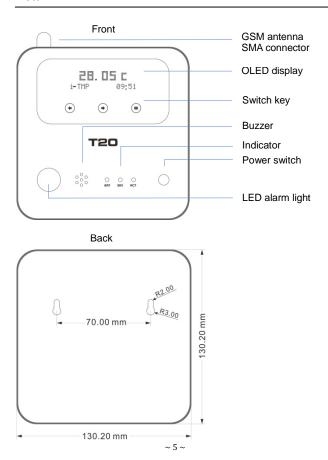
- Inside 3 relays
- Temp and humi alarm/ultra high/low interlock
- Programmable timer relay action

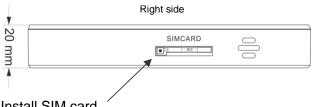
Standard package

T20 X1/ temperature probe X1 / AC/DC AdaptorX1

System Overview

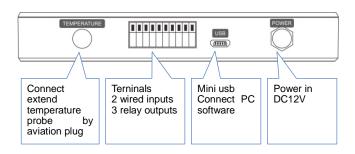
Install



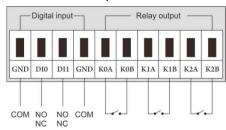


Install SIM card

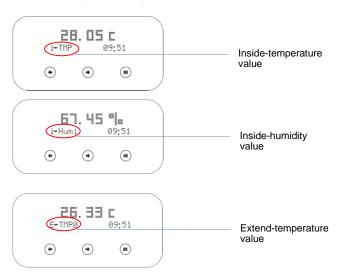
Press the small yellow dot, the SIM card drawer will spring out automatically. Take out the drawer, put the SIM card in it on the slot direction and plug back the drawer.



Terminals descriptions



Press switch key to view every channel's value



LED indicator description

Indicator	Status	Indication description
BAT	on	during interior battery is charging
SRV	Light on during handling	It will be light on when the system sends short messages and light off when the handling is over
ACT	Flicker	It will flicker periodically when the system is under operation, and the interval time is 6 sec

Setup by PC software

Connect PC software

Step1: Run the Driver of pl2303; follow the application wizard to finish the installation. Then restart the computer to ensure the driver run.

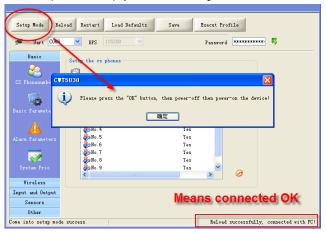


Step2: Connect T20 to computer by USB cable, and run the software



Step3: access setup mode

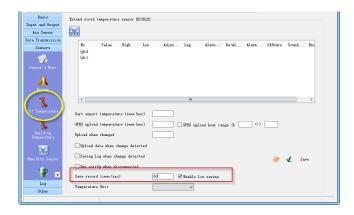
Click "Setup Mode", and pay attention to the right bottom of software.



Definition: Working mode and setup mode

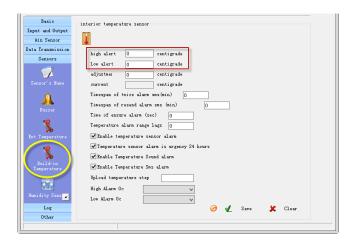
In setup mode, all functions are disabled, only to setup parameters. And T20 must be restart to enter working mode, all functions is enabled, the T20 can alarm and be control.

Setup data logger

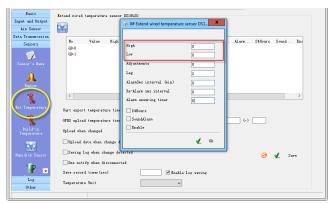


Setup temperature and humidity alarm

1. Setup interior high and lower point

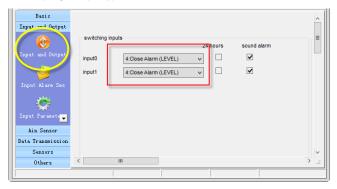


2. Setup extend high and lower point

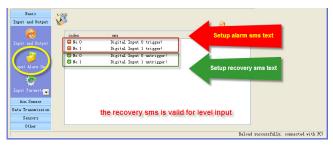


Setup digital input alarm

1. Setup digital input type



2. Setup digital inputs sms text

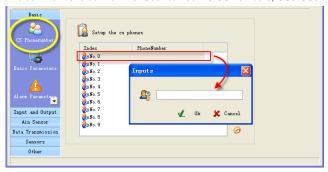


Setup SMS

1. setup cs numbers

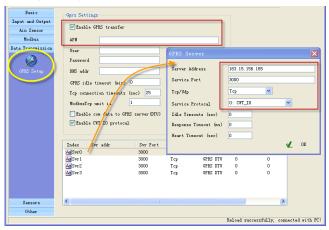
The "CS number" can receive sms (alarm sms, report sms etc) and send

sms commands to control T20. User can set 10 CS numbers. CS0-CS9



Setup GPRS parameters

1. Setup GPRS parameters



T20 transmits data to server, so must setup target server's IP address, port and protocol.

NOTE: server IP must be a public fixed IP address or a domain. If your PC only has an internal network IP, probably something likes 192.168.1.XXX. You must do port Forwarding in your router.

2. Setup timer to upload data

For example, set upload extand temperature every 5 min

