

# twilight

INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

## Termohigrómetro Datalogger Wifi CW-T20WIFITH

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# T20 Installation Manual



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Setup temperature parameters.....	错误!未定义书签。
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## Feature

### Temperature humidity measurement

- I Temperature measurement range:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}(\pm 0.3^{\circ}\text{C})$
- I Humidity measurement range: 0% to 100%RH ( $\pm 2\text{RH}\%$ )
- I Support up to 2 temperature probes or 2 temperature & humidity probes

### Display

- I OLED display screen
- I Touch key switch menu

### Data logger

- I Wireless record to Cloud, optional cellular or Wi-Fi version
- I Memory data storage capacity: 15000 readings
- I Automatically data store when network connection lost
- I Recover the stored to Cloud when connection is back to normal

### Real-time data Monitoring

- I Login cloud via web or APP to monitor data
- I Support export data form cloud platform

### Alarm

- I Configurable temperature/humidity low and high level to alarm
- I High-brightness red led light on panel
- I Built-in alarm buzzer
- I Power failure/recover alarm
- I Support 2 wired inputs for alarm

### Communications

- I SMS  
(only cellular version support)

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

- I TCP/IP connect

- TCP/IP connect 4 internet servers (IP or domain)
- Http post, Cwt\_IO protocol
- Real-time/logging upload data

### Thermostat

- I Inside 3 relays
- I Temperature and humidity high or low interlock
- I Programmable timer relay action

## Standard package

T20 X1

temperature probe (or temperature humidity) x1, 3m cable

AC/DC Adaptor x1 (INPUT: 110-240V AC OUTPUT: 12V 1.5A DC)

Micro USB Cable x1

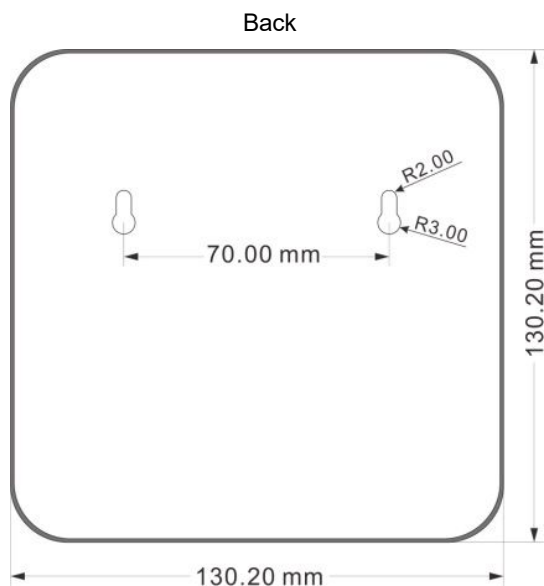
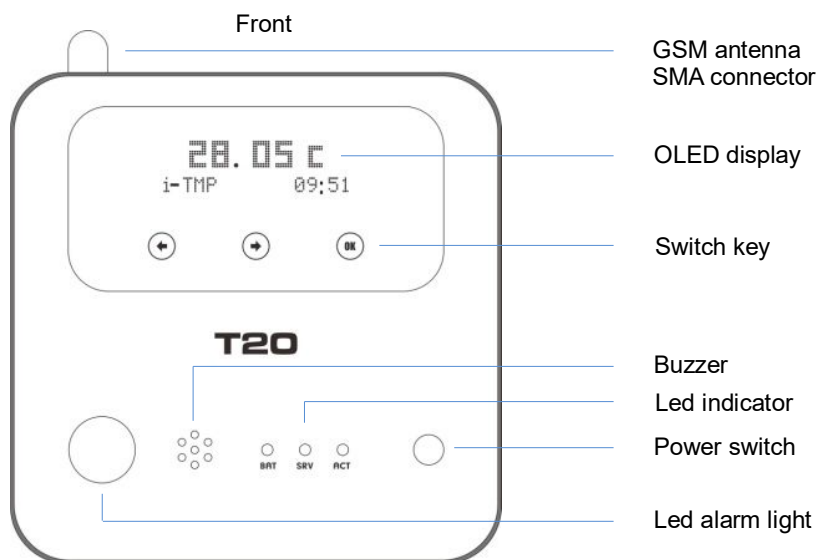
Antenna x1

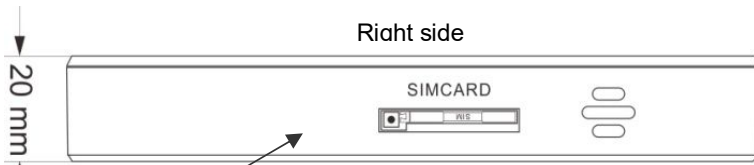
## Electronica feature

<b>MCU</b>	Cortex M3 32-bit ARM
<b>Power supply</b>	12V DC (Standard adapter: DC 12V/1.5A)
<b>Consumption</b>	12V input Max. 340mA
<b>Temperature range</b>	-40°C to +80°C(±0.3°C)
<b>Humidity range</b>	0% to 100%RH (±2RH%)
<b>Probe</b>	Max.2 (standard packing: 1 probe) Option: temperature, temperature & humidity probe
<b>Wireless Network</b>	Either GPRS(or 4G, need simcard) or Wi-Fi(Not need simcard) Option: GSM/GPRS (4 band 850/900/1800/1900Mhz) FDD LTE(4G) Wi-Fi, 802.11 b/g security WEP/WPA/WPA2
<b>GPS module</b>	Optional for 4G
<b>Antenna interface</b>	Standard SMA female interface (50Ω)
<b>Working temperature</b>	-30°C~+70°C
<b>Working humidity</b>	Relative humidity 95%
<b>Display</b>	OLED
<b>Key</b>	Touch
<b>Digital input</b>	2 channel
<b>Digital Output</b>	3 relay output (NO), DC220V 2A / AC 125V 2A
<b>Alarm light</b>	Red LED light
<b>Alarm sound</b>	Inside buzzer, Loudness : 85dB
<b>Config port</b>	Mini USB, (windows)
<b>Battery</b>	lithium-polymer, 500mAh/3.7V, life:6 hours
<b>Dimension</b>	130×130×20mm
<b>Weight</b>	265g
<b>Housing</b>	Aluminum front panel , back case ABS

# System Overview

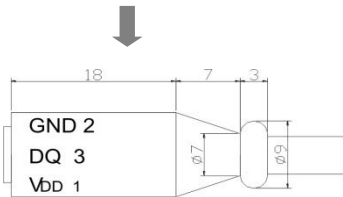
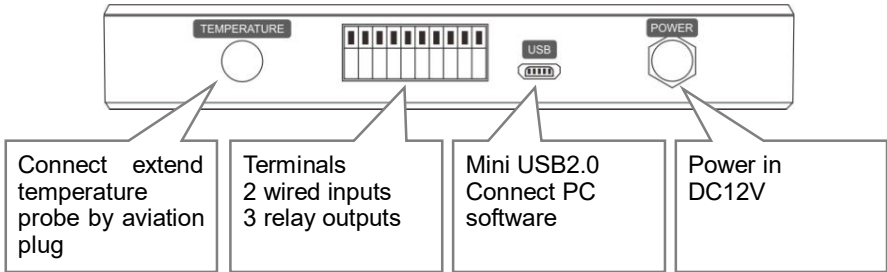
## Install



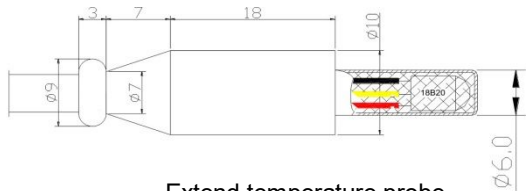


**Install SIM card**

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.



Extend temperature probe aviation plug



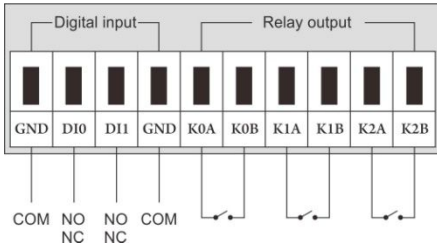
Extend temperature probe

temperature&humidity probe

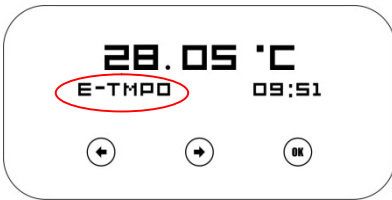


Probe's brackets

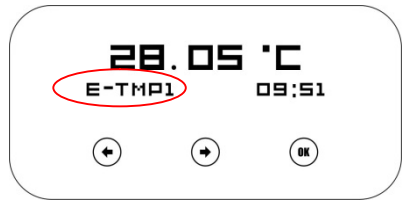
## Terminals descriptions



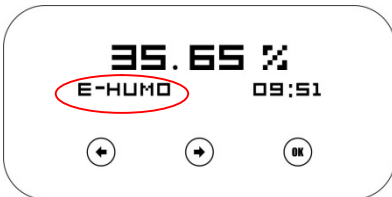
Press switch key to view every channel's value



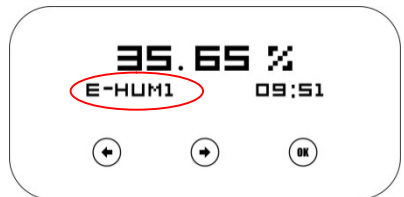
Channel 0 temperature



Channel 1 temperature



Channel 0 humidity



Channel 1 humidity

## LED indicator description

Indicator	Status	Indication description
BAT	on	battery is charging
SRV	on	1.When device start (power on) 2.While sending sms
ACT	flash every 600ms	Device is In setup mode



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