

TEMPERATURE SENSOR

Introduction & Tutorial

Version 1.0

1. Introduction

Temperature sensor is suitable for monitoring the temperature of a certain sector inside a vehicle in real-time, especially when delivering perishables. When the temperature exceeds preset value, an alert will be sent to platform, allowing someone to take immediate measures to prevent the goods from rot and loss.

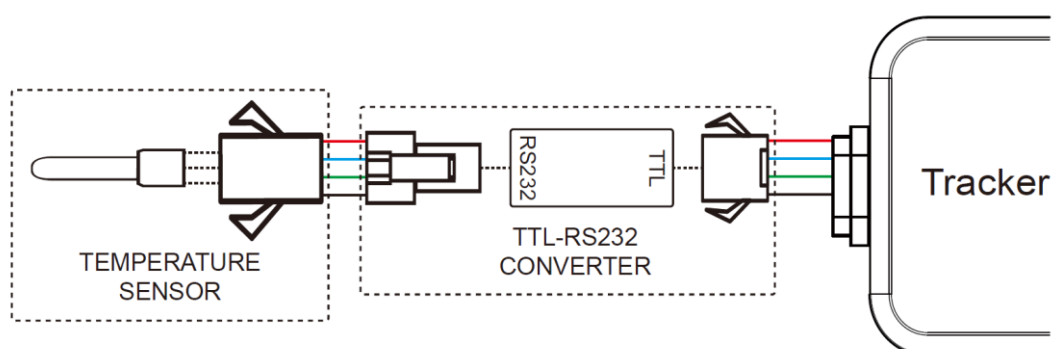
2. Picture



3. Specification

Operating voltage	5V DC
Working current	<10mA
Communication interface	RS232
Baud rate	9600
Type	NTC temperature sensor (thermistor transducer)
Working temperature	-40°C-125°C (-30-110°C recommended)

4. Wiring diagram



5. Supported devices



GT06E



X3

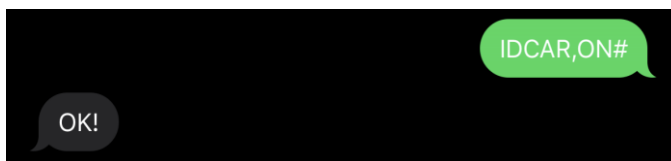


JM-VG04

6.1 Commands of X3

- **Function: Turn on/off the power supply of communication interface**

Command: `IDCAR,ON/OFF#`



- **Function: Activate/block data transmission of communication interface**

Command: `WSTC,ON,X#` (X=1-3)

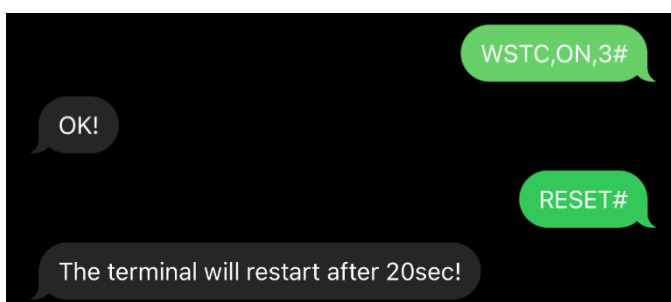
X=1: reserved for common peripherals, Baud rate is 115200

X=2: specific for RFID reader, Baud rate is 9600

X=3: specific for temperature sensor, Baud rate=9600

Note: When this command `WSTC,ON,X#` is sent, to function it you have to restart the device by sending command `RESET#`, or you can restart manually.

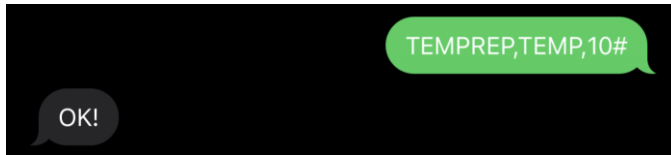
Note: For customers using third-party platforms, X=2 or X=3 is suitable for other peripherals whose Baud rate is 9600.



- **Function: Set the time interval of collecting data**

Command: `TEMPREP,TEMP,T#`

T=1-255 (unit: second), the time interval of collecting temperature data, default=1s.



- **Function: Set the time interval of uploading data**

Command: `TEMPREP,ON/OFF,T#`

T=10-3600 (unit: second), the time interval of uploading temperature data, default=20s.

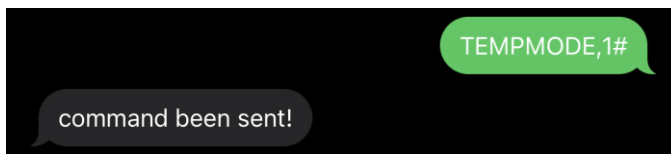


- **Function: Activate/block data pack filtering**

Command: `TEMPMODE,A#`

A=0: Filter out abnormal temperature values when uploading.

A=1: Upload temperature values without filtering,



6.2 Commands of GT06E

- **Function: Activate/block temperature monitoring**

Command: `Command: WSTC,A,B,C#`

A=ON/OFF, activate/block data transmission of communication interface.

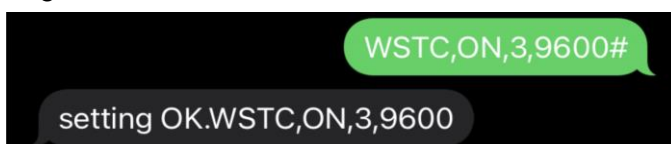
B=1, peripheral type 1, reserved for users.

B=2, peripheral type 2, specific for RFID reader.

B=3, peripheral type 3, specific for temperature sensor.

C=BPS, Baud rate of the interface, optional value: 4800, 7200, 9600, 19200, 38400, 57600, 115200.

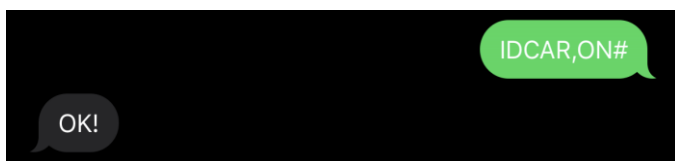
Note: When setting this function, any parameter can't be omitted or missed, also the Baud rate ought to be correct.



6.3 Commands of JM-VG04

- **Function: Turn on/off the power supply of communication interface**

Command: `IDCAR,ON/OFF#`



- **Function: Activate/block data transmission of communication interface**

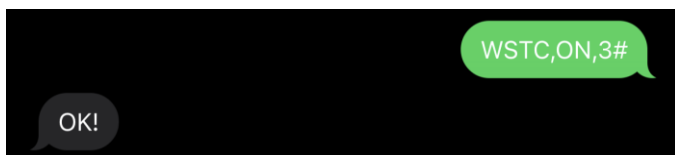
Command: `WSTC,ON,X#` (X=1-3)

X=1: reserved for common peripherals, Baud rate is 115200

X=2: specific for RFID reader, Baud rate is 9600

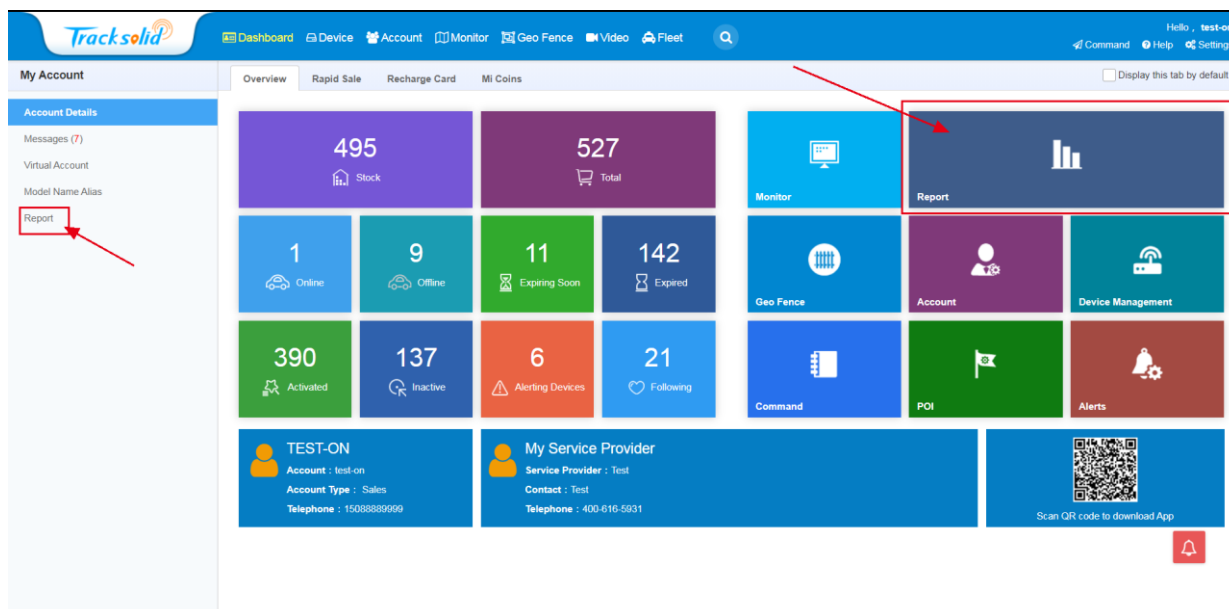
X=3: specific for temperature sensor, Baud rate=9600

Note: For customers using third-party platforms, X=2 or X=3 is suitable for other peripherals whose Baud rate is 9600.



7. Platform

- 1) Click “Report” on homepage.



- 2) Click “Temperature” on the left column, select the account and time period and input the IMEI number, then click “View Chart” or “Export”.

Report: Temperature

user-defined | 2020-09-20 00:00 | 2020-09-21 12:30

cpiao | 351510091761018

Search

No.	Device Name	IMEI	Model	Update Time	Temperature	Operation
1	תת-5433	351510091761018	X3	2020-09-21 12:30:46	25.7°C	View Chart
2	תת-5433	351510091761018	X3	2020-09-21 12:30:15	25.7°C	View Chart
3	תת-5433	351510091761018	X3	2020-09-21 12:29:45	25.8°C	View Chart
4	תת-5433	351510091761018	X3	2020-09-21 12:29:15	25.8°C	View Chart
5	תת-5433	351510091761018	X3	2020-09-21 12:28:45	25.8°C	View Chart
6	תת-5433	351510091761018	X3	2020-09-21 12:28:15	25.8°C	View Chart
7	תת-5433	351510091761018	X3	2020-09-21 12:27:45	25.8°C	View Chart
8	תת-5433	351510091761018	X3	2020-09-21 12:27:15	25.8°C	View Chart
9	תת-5433	351510091761018	X3	2020-09-21 12:26:45	25.8°C	View Chart
10	תת-5433	351510091761018	X3	2020-09-21 12:26:15	25.8°C	View Chart

Temperature

3) Then you can view the temperature history graph.

Temperature History

351510091761018

2020-09-21 10:56:04
24.2°C

4) Or export a temperature report.

Temperature Report (from 2020-09-20 00:00 to 2020-09-21 12:30)						
No.	Device Name	IMEI	Model	Update Time	Temperature	
1	תת-5433	351510091761018	X3	2020-09-21 12:30:46	25.7°C	
2	תת-5433	351510091761018	X3	2020-09-21 12:30:15	25.7°C	
3	תת-5433	351510091761018	X3	2020-09-21 12:29:45	25.8°C	
4	תת-5433	351510091761018	X3	2020-09-21 12:29:15	25.8°C	
5	תת-5433	351510091761018	X3	2020-09-21 12:28:45	25.8°C	
6	תת-5433	351510091761018	X3	2020-09-21 12:28:15	25.8°C	
7	תת-5433	351510091761018	X3	2020-09-21 12:27:45	25.8°C	
8	תת-5433	351510091761018	X3	2020-09-21 12:27:15	25.8°C	
9	תת-5433	351510091761018	X3	2020-09-21 12:26:45	25.8°C	
10	תת-5433	351510091761018	X3	2020-09-21 12:26:15	25.8°C	
11	תת-5433	351510091761018	X3	2020-09-21 12:25:45	25.8°C	
12	תת-5433	351510091761018	X3	2020-09-21 12:25:15	25.8°C	
13	תת-5433	351510091761018	X3	2020-09-21 12:24:45	25.9°C	
14	תת-5433	351510091761018	X3	2020-09-21 12:24:15	25.9°C	
15	תת-5433	351510091761018	X3	2020-09-21 12:23:45	25.9°C	
16	תת-5433	351510091761018	X3	2020-09-21 12:23:15	25.9°C	
17	תת-5433	351510091761018	X3	2020-09-21 12:22:45	25.9°C	
18	תת-5433	351510091761018	X3	2020-09-21 12:22:14	26.0°C	