

MEITRACK Temperature Sensor User Guide



Applicable Model: MVT600/T1/MVT800/T333

| File Name | MEITRACK Temperature Sensor User Guide | Created By | Owen Cheng | | |
|------------|--|---------------|------------------------|--|--|
| Droject | | Creation Date | 2012-10-12 | | |
| Project | MV1600/11/MV1800/1333 | Update Date | 2015-10-09 | | |
| Subproject | Accessory User Guide | Total Pages | 11 | | |
| Version | V1.4 | Confidential | External Documentation | | |

Change History

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2 Applications

- Measure vehicle temperature.
- Measure ambient temperature in real time.

3 Product Function and Specifications

3.1 Product Function

- Measure vehicle temperature in real time.
- Used for high temperature conditions. An alert will be sent when a high temperature alarm is triggered.
- Used for low temperature conditions. An alert will be sent when a low temperature alarm is triggered.

3.2 Specifications

| Item | Specifications |
|----------------------|---|
| Dimension | Ø5*30mm |
| Operating voltage | 3 V–5.5 V DC |
| Temperature range | -20°C to 100°C |
| Measurement accuracy | ±0.5°C |
| Packaging materials | Stainless steel tube or nickel-plated brass |
| Cable | PVC plastic cable |
| Cable length | 5m (standard) |

4 Main Device and Accessories

- Digital temperature sensor
- 6 pin to 4 pin conversion cable
- A61 converter

Note:

- 1. Standard packaging: 1 digital temperature sensor, one 6 pin to 4 pin conversion cable, and 1 A61 converter.
- 2. One A61 converter can connect to four digital temperature sensors.

- 3. If eight digital temperature sensors need to be connected, two A61 converters and two 6 pin to 4 pin conversion cables are required.
- 4. MVT800 is equipped with one dedicated temperature sensor plug, so no A61 converter is required.
- 5. For the MVT600/T1/T333, an A61 converter is required.

5 Appearance

• Digital temperature sensor



• A61 converter



• 6 pin to 4 pin conversion cable





6 Installing the Temperature Sensor

Mount the temperature sensor to the vehicle based on customers' application.

6.1 Connecting the Temperature Sensor to the MVT600/T1/T333

Connect the temperature sensor to the MVT600/T1/T333 through A61 converter. There are three wiring scenarios as follows: **Scenario 1:** A61 converter +A52 temperature sensor

Connect four temperature sensors to tracker's SEN port (digital temperature sensor input) through an A61 converter. So you can measure temperature at four places of a vehicle (for example, the back part, carriage, ventilation slot of the in-car air conditioner, and engine). For details, see the following figure:



Wiring Diagram (Tracker+A61+A52)



Scenario 2: A61 converter + A52 temperature sensor + A53 fuel sensor

If four temperature sensors and one fuel sensor are required, connect A61 converter's input port to the tracker and connect A61 converter's output port to the fuel sensor. For details, see the following figure:





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Scenario 3: (2*A61 converters + A52 temperature sensor +A53 fuel sensor)

If multiple temperature sensors (quantity: 4–8 sensors) and one fuel sensor are required, connect one A61 converter's output port to another A61 converter's input port through a power conversion cable, and then connect the two A61 converters to sensors accordingly. For details, see the following figure:







6.2 Connecting the Temperature Sensor to the MVT800

Connect the temperature sensor to MVT800's dedicated temperature port as follows; no A61 converter is required.



7 Registering a Temperature Sensor and Changing Its Name

- 1. Connect the digital temperature sensor to a tracker (T1/MVT600/T333/MVT800) and connect it to a computer. After logging in to MS03, add the tracker to MS03, and the temperature sensor will be automatically registered.
- 2. On the MS03 main interface, choose **Management**. On the window that is displayed, choose **Temperature sensor** from Use Normal.



3. Select a tracker from the **Tracker** drop-down list, and click \square .

| Tempe | rature senso | r | | i i | | | | | | • • • |
|---|--------------------|-----------|-------------------------|----------------|-----------------|----------|----------------|---------------------|--------|-------|
| Tracker: Select a tracker 💌 Sensor name: En | | | | er sensor name | SN: Enter t | he SN | Q X Ed | | | |
| | Name | ame No SN | | High temp | High temp value | Low temp | Low temp value | Last upload | Temp | |
| | F800-5031 T | otal(1) | | | | | | | | |
| | 温度1 | 2 | 28 B4 76 23 04 00 00 52 | Yes | 35 | Yes | 5 | 2015-08-11 10:51:16 | 25.680 | 🗙 💆 |
| | | | | | | | | | | |

4. Compare and verify the SNs on MS03 and the temperature sensor, locate the temperature sensor, double-click it to



modify relevant data, and click Save.

| Tempe | rature sensor | | | | | | | | | | • • • |
|--------|---------------|----------|-------------------------|-------------------|-----------|---------|----------|----------------|---------------------------|--------|------------|
| Tracke | r: 🔲 Select a | tracker | ✓ Sensor name: | Enter sensor name | SN: | Enter t | the SN | Q 🗶 🔳 | lit one and assign to all | | |
| ≤ | Name | me No SN | | High temp | High temp | value | Low temp | Low temp value | Last upload | Temp | |
| | 1800-5031 To | otal(1) | | | | | | | | | |
| 温 | 度1 | 2 | 28 B4 76 23 04 00 00 52 | Yes 💌 | 35 | ÷ | Yes 👻 | 5 \$ | 2015-08-11 10:51:46 | 25.680 | X 🖄 |
| | | | | | 2 | ave | Cancel | | | | |
| | | | | | | | | | | | |

Note:

- 1. At most 8 temperature sensors can be registered for each MVT600/T1/T333. Before registration, make sure the tracker is online and has been installed correctly and properly connected to power supply.
- 2. After the high and low temperature alarms are defined, once the temperature of a temperature sensor exceeds the preset upper limit or is less than the preset lower limit, an alarm will be triggered.
- 3. A temperature sensor name can contain at most 15 characters.
- 4. The temperature sensor No ranges from 1 to 255. It is not registered in sequence.

8 Unregistering a Temperature Sensor and Deleting Historical Data

8.1 Unregistering a Temperature Sensor

You can unregister a temperature sensor when the sensor is no longer used or is damaged. By doing so, its registered number is released for another sensor. The historical data related to the unregistered sensor will still be remained. For more information about how to delete historical data, see section 8.2 "Deleting Historical Data."

Click 🗱 next to 📓 to unregister a temperature sensor, as shown in the following figure.

| Ter | Temperature sensor | | | | | | | | | | | | | |
|-----|--------------------|-------------|-------------------------|----------------|-------------|----------|----------------|----------------------------|--------|-----|--|--|--|--|
| Tra | acker: 🗌 Selec | t a tracker | ▼ Sensor name: Ente | er sensor name | SN: Enter t | he SN | Q 🗙 🗖 | it one and assign to all | | | | | | |
| | Name | No | SN | SN High temp | | Low temp | Low temp value | Low temp value Last upload | | | | | | |
| | MVT800-5031 | Total(1) | | | | | | | | | | | | |
| | 温度1 | 2 | 28 B4 76 23 04 00 00 52 | Yes | 35 | Yes | 5 | 2015-08-11 10:52:56 | 25.750 | X 🖉 | | | | |
| L | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

8.2 Deleting Historical Data

Select a temperature sensor, and click 🗱 next to 🍳 to delete historical data about the sensor, as shown in the following figure.

| Ten | Temperature sensor | | | | | | | | | | | | | |
|---------------------------------------|--------------------|----------|-------------------------|----------------|-----------------|----------|----------------|---------------------|--------|-----|--|--|--|--|
| Tracker: Select a tracker Sensor name | | | | er sensor name | SN: Enter t | he SN | Q 🗙 Edi | | | | | | | |
| | Name | No | SN | High temp | High temp value | Low temp | Low temp value | Last upload | Temp | | | | | |
| | IVT800-5031 T | 'otal(1) | | | | | | | | | | | | |
| \leq | 温度1 | 2 | 28 B4 76 23 04 00 00 52 | Yes | 35 | Yes | 5 | 2015-08-11 10:53:06 | 25.750 | 🗙 💆 | | | | |
| | | | | | | | | | | | | | | |



9 Querying Reports on MS03

9.1 Historical Data

You can obtain temperature reading of defined temperature sensors from a historical data report, as shown in the following figure.

| Historical data | Historical data $igodot \otimes \otimes$ | | | | | | | | | | | | | |
|--|--|---------------|--------------|--------------|----------------|-------------------|----------|---------|-------|---------------|--|--|--|--|
| Quick time 🔻 From: 2015-08-11 III | 00:00 × To: | 2015-08-11 | 1111 23:59 - | Speed: >= ~ | 0 A | ddress 🗹 Ignor | re drift | Q 😢 🚺 📙 | ۵ | | | | | |
| Enter tracker/user name to be queried(em 🔍 | unning time | BaseStationID | HDOP | Engine state | Tracker bat | ttery Car battery | fuel | 油量1 | 温度1 | Fuel percenta | | | | |
| Users | Day06:23:31 | 460 0 2792 | 2.2 | normal | 3.75 | 0.00 | 1% | 0% | 25.62 | 0.19% 🔺 | | | | |
| 🔲 🗖 🧟 william | Day06:23:41 | | | | | | | | | 0.19% | | | | |
| 🔲 🖶 🧸 aiun | Day06:23:51 | 460 0 2792 | | normal | | 0.00 | | 0% | 25.62 | 0.19% | | | | |
| - fdfdy | Day06:24:01 | | | | | | | | | 0.19% | | | | |
| | Day06:24:11 | 460 0 2792 | 3.8 | normal | 3.75 | 0.00 | 1% | 0% | 25.62 | 0.19% | | | | |
| 1322-0007 | Day06:24:21 | | | | | | | | | 0.19% | | | | |
| MVT800-5031 | Day06:24:31 | 460 0 2792 | 3.8 | normal | 3.75 | 0.00 | 1% | 0% | 25.62 | 0.19% | | | | |
| 🔲 🕂 🚗 Alex | Day06:24:41 | | | | | | | | | 0.19% | | | | |
| T622_Garmin | Day06:24:51 | 460 0 2792 | 3.9 | normal | 3.75 | 0.00 | 1% | 0% | 25.62 | 0.19% | | | | |
| | Day06:25:01 | 460 0 2792 | | | | | | | | 0.19% | | | | |
| | Day06:25:11 | | | | | | | | | 0.19% | | | | |
| | Day06:25:21 | | | | | | | | | 0.19% | | | | |
| | Day06:25:31 | 460 0 2792 | 2.3 | normal | 3.75 | 0.00 | 1% | 0% | 25.62 | 0.19% | | | | |
| | Day06:25:41 | | | | | | | | | 0.19% | | | | |
| | Day06:25:51 | 460 0 2792 | 2.2 | normal | 3.75 | 0.00 | 1% | 0% | 25.62 | 0.19% 🚽 | | | | |
| | 4 | | | | | | | | | | | | | |
| | 🕊 🕻 Pa | age 4 | Total4 | ∑ C | Display301 - 3 | 77Total377 | | | | | | | | |

9.2 Sensor Report

1. On the MS03 main interface, choose **Reports**. On the window that is displayed, choose **Sensor report** from **Use Normal**.



2. Select a tracker and temperature sensor, set the query time, and click . The temperature sensor report will be displayed.



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| Sensor r | report | | | | | | | ļ | | | | | | | | | | | | | | • • • |
|-----------------|----------|-------|---------|---------|---------|-----------|-----------|-----------|------------|------------|--------------|-------|-------|----------------|---------------|------------|--------|----------|-------------|-----|-----|-------------------|
| Tracker: | MVT800 | -5031 | Ŧ | 温度1 | | Ŧ | Quick tim | ne 🔻 | From: | 2015-08-11 | 1 💷 00 | .00 ~ | To: | 2015-08-11 | <u>≣</u>] 23 | 59 - | Show | key data | Ŧ | 100 | - (| 2 |
| 30 | | | | | | | | | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | _ | _ | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 25 - | | | | | | - | - | • | | | | • | • | | | | | | • | • | • | •• |
| | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 0 2015-08-11 | 10:39:01 | 2015- | 08-11 1 | 0:41:02 | 2015-08 | 8-11 10:4 | 3:02 | 2015-08-1 | 1 10:45:03 | 2015 | 5-08-11 10:4 | 7:04 | 2015- | 08-11 10:49:05 | 2015 | -08-11 10: | :51:06 | 2015-08 | -11 10:53:0 | 06 | 201 | 15-08-11 10:55:47 |
| | | | | | | | | | | | | | | | | | | | | | | |
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If you have any questions, do not hesitate to email us at info@meitrack.com.