

MEITRACK RFID User Guide



Applicable Model: MVT600/T1

Change History


| | | | |
|------------|--------------------------|---------------|------------------------|
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Contents

| | |
|--|--------|
| 1 Copyright and Disclaimer | - 4 - |
| 2 Applications | - 4 - |
| 3 Product Function and Specification | - 4 - |
| 3.1 Product Function | - 4 - |
| 3.2 Specification | - 4 - |
| 4 Main Device and Accessories | - 4 - |
| 5 Outward Appearance..... | - 5 - |
| 6 First Use | - 5 - |
| 6.1 Fixed Installation..... | - 5 - |
| 6.2 Connection Terminal..... | - 5 - |
| 7 Software Upgrade..... | - 5 - |
| 7.1 Support the version of the software and hardware of RFID | - 5 - |
| 7.2 MVT600/T1 Software upgrade | - 6 - |
| 7.3 OTA Online Upgrade | - 6 - |
| 8 RFID Card Reader Function | - 7 - |
| 8.1 RFID Use | - 7 - |
| 8.2 Platform query..... | - 8 - |
| 8.3 RFID Authorization..... | - 10 - |
| 8.4 RFID Delete | - 10 - |
| 8.5 RFID Management | - 11 - |
| 8.6 RFID Control Output 1 | - 12 - |
| 9 Note..... | - 12 - |

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2 Applications

- To identify driver's identity
- To utilize OUT1 function

3 Product Function and Specification

3.1 Product Function

- To identify driver's identity
- Wiegand26 interface----MVT600
- RS232 interface-----T1
- To control output 1 function

3.2 Specification

| Item | Description |
|----------------------------------|----------------|
| Dimension | 79 x 42 x 13mm |
| Weight | 150g |
| Normal Standby power consumption | 25mA |
| Operating Temperature | -20°C to 55°C |
| Operating Humidity | 5% to 95% |
| Operating Voltage | 5V |
| Internal Resistance | 3.6R |
| Baud Rate | 19200 |

4 Main Device and Accessories

- RFID
- 4P to 8P Cable

5 Outward Appearance



Card reader



Proximity card

6 First Use

6.1 Fixed Installation

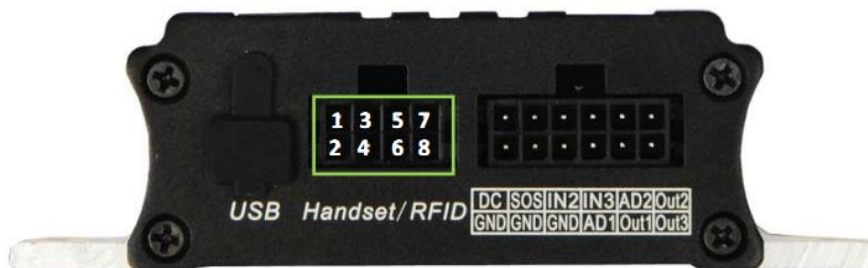
RFID and vehicle: according to customers' needs

6.2 Connection Terminal

- Insert RFID cable into the dedicated terminal interface
MVT600 is dedicated to weigand 26 interfaces as follow:



T1 dedicated RS232 interface is as follows:



7 Software Upgrade

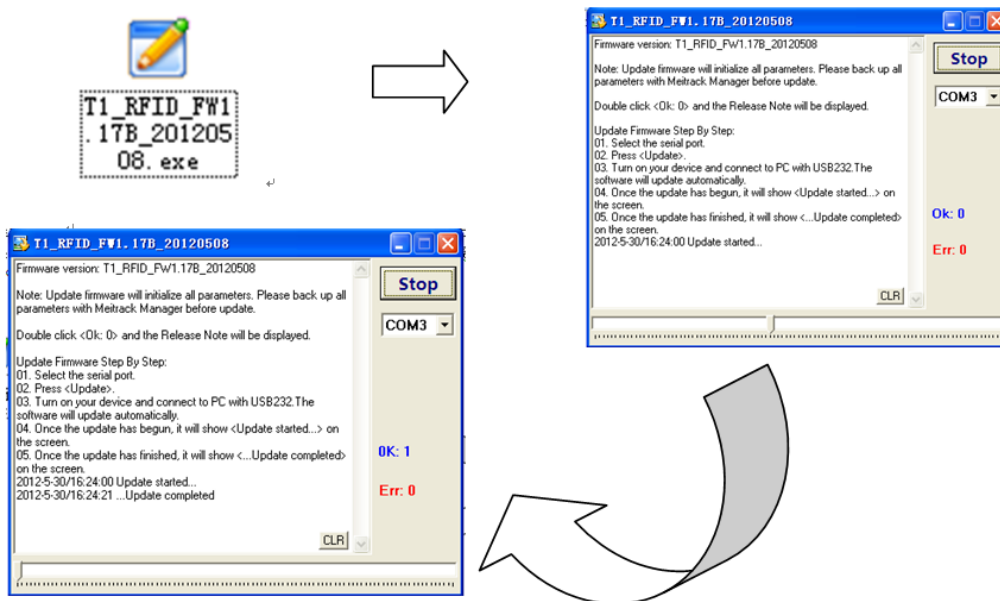
7.1 Support the version of the software and hardware of RFID

| Model | Software Version | Hardware Version | Note |
|--------|------------------|------------------|-------------------------|
| MVT600 | MVT600_FW3.10E | V1.9 | Support RFIDControlOUT1 |

| | | | |
|---------|----------------|----------------|--|
| | MVT600_FW6.10E | V2.1 and above | Support RFID Control OUT1 |
| T1-RFID | T1RFID_FW1.20D | V1.5 and above | V1.8 and above support RFID Control OUT1 |

7.2 MVT600/T1 Software upgrade

Double-click the program to run the firmware upgrade. Connect MVT600/T1 to the computer with the USB232 cable. Then select the correct port (COM3 in example), click “Open”, MVT600/T1 will automatically booted into programming mode (for MVT600 blue and green light will flash), when the MVT600/T1 has been flashed successfully, the “OK” count will increase by 1. (Take T1 as an example)

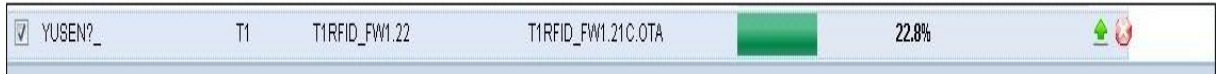


7.3 OTA Online Upgrade

1. Ensure that the device is plugged in the external power supply, GPRS connection in normal, and connected to the MS02
2. Log in the platform, select “Management”→“Online Upgrade” menu, the system will pop up the login screen, enter the platform password to login OTA upgrade interface.



3. Entering the OTA upgrade interface, select the device you want to upgrade, the model, the current version, upgrade version, next picture shows the device being upgraded.



4. The upgrade has been completed, the platform will be prompted to upgrade, as shown:



Note: Support OTA upgrade software version, see OTA manual.

8 RFID Card Reader Function

8.1 RFID Use

MVT600 has been connected to an external power supply, after booting, RFID reader indicator light (red) when the card into the card reader range, the reader will flash green, and record the data. MYCOM software figure 00D19DD7 card RFID number (hexadecimal display), converted to decimal for 137



MYCOM software reads data:

```

| Thread PRIO_RFID |
RFID :13737431
CheckData : 13737431
Check ...
RFID Not Authorization

=== GPRS Event Code : 37 ===

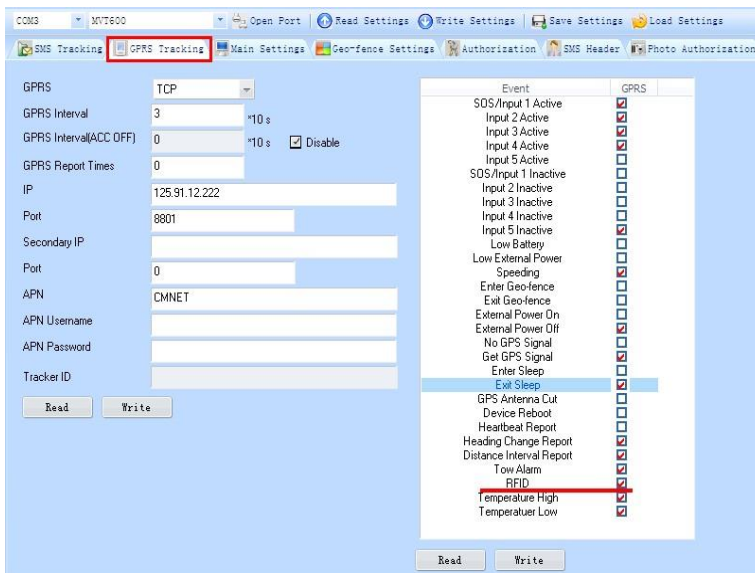
----- TR 2:1 -----

=====2012-5-30 10:44:44=====

=== Send GPRS Data :
$$ 145,861785006569754,AAA,37,22.513401,114.056943,120530024438,A,4,17,0,0,4,34,4169,87274,
460|0|2792|0E89,0000,0016|001D|0000|0A45|0386,00D19DD7,*79
    
```

8.2 Platform query

1. To configure RFID, Parameter will be used to set upload data, select GPRS tracking, click the last item for RFID.

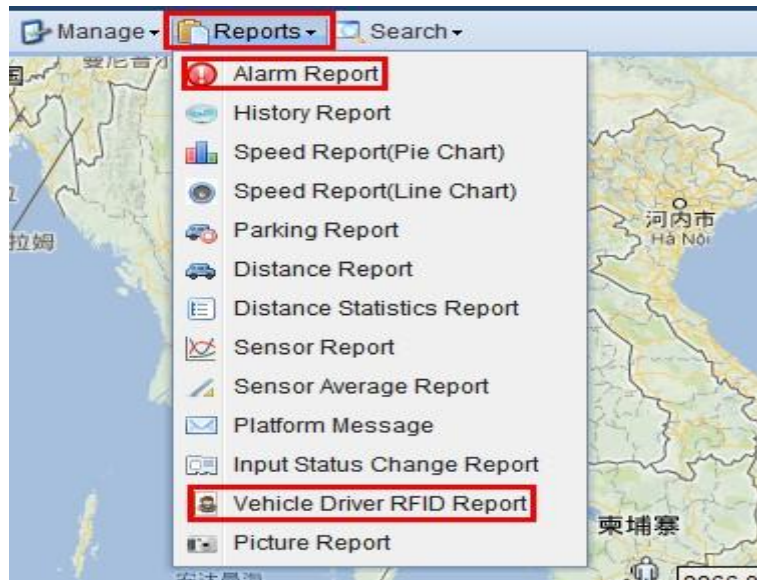


2. MS02 platform click the terminal name in the bottom, which can see the most recent RFID punch ID.

Others:

| | |
|------------|----------|
| GSM Signal | 22 |
| Satellites | 6 |
| RFID | 13714978 |
| door open | 0 |

3. Click alarm report query statement → alarm statement → select device name, alarm type selection of RFID in the time range of state of the RFID reader will be able to view and then select a date.



Search Alarm Information

Device Name: T1-test Alarm Type: RFID From: 2013-01-18 00:00 To: 2013-01-18 23:59 Get Address

| Device N... | Alarm Type | GPS Time | Received Time | Fix | Location | Latitude | Longitude | Speed |
|-------------|----------------|----------------|----------------|---------|----------------------|-----------|------------|-------|
| T1-test | RFID(13723455) | 01-18 08:57:31 | 01-18 08:57:28 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:57:33 | 01-18 08:57:37 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:58:09 | 01-18 08:58:05 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:58:15 | 01-18 08:58:30 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:58:29 | 01-18 08:58:42 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:58:30 | 01-18 08:58:45 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:58:31 | 01-18 08:58:55 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:58:32 | 01-18 08:58:58 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:58:33 | 01-18 08:59:01 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:58:35 | 01-18 08:59:05 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:59:04 | 01-18 08:59:03 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:59:16 | 01-18 08:59:16 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 08:59:41 | 01-18 08:59:40 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |
| T1-test | RFID(13723455) | 01-18 09:08:35 | 01-18 09:08:33 | Invalid | 22.513648,114.057213 | 22.513648 | 114.057213 | 0.00 |

Page 1 of 7 Displaying 1 - 15 of 92

4. In alarm report follow a vehicle driver's FRID statement, click to select the device name/driver name, select the input port, and then select a date will be able to view in the time range RFID reader input port activation status.

Vehicle Driver RFID Report

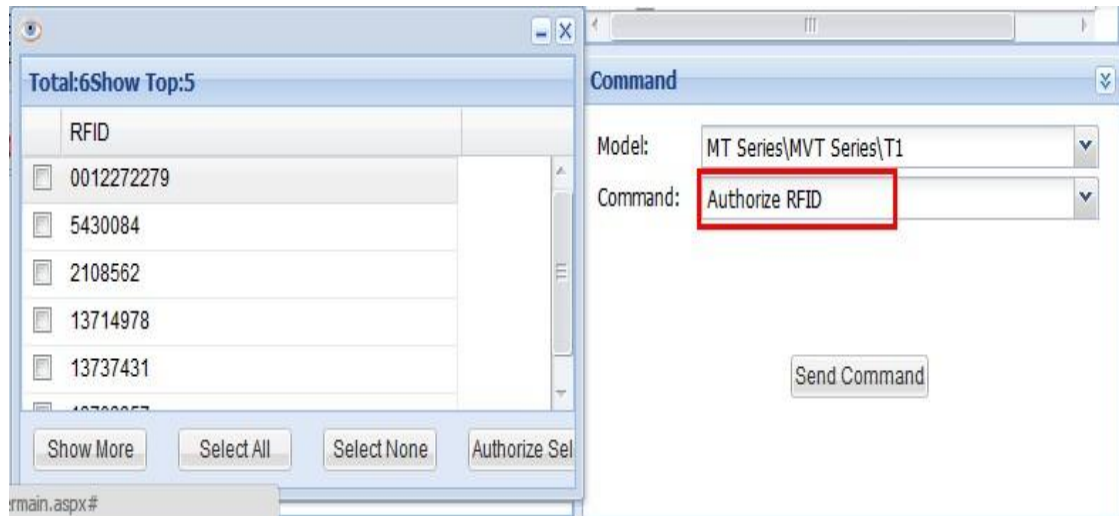
Tracker Name: T1-test Input: Input 2 Statistical methods: Active Time -> Ina From: 2013-01-17 00:00 To: 2013-01-18 23:59

| Driver Name | Vehicle No | Active Time Time | Inactive Time Time | Active Time Address | Inactive Time Address | Max Sp... | Journe... | Idle Time |
|-------------|-----------------|---------------------|---------------------|----------------------|-----------------------|-----------|-----------|-----------|
| aa | 012896001078259 | 2013-01-18 09:40:10 | 2013-01-18 09:40:11 | 中国广东 元朗区 深圳 ... | 中国广东 元朗区 深圳 ... | 0km/h | 0km | 00:00:01 |
| aa | 012896001078259 | 2013-01-18 09:40:12 | 2013-01-18 10:00:57 | 中国广东 元朗区 深圳 ... | 中国广东 元朗区 深圳 ... | 0km/h | 0km | 00:20:22 |
| aa | 012896001078259 | 2013-01-18 16:25:11 | 2013-01-18 16:25:11 | 22.513648,114.057213 | 中国广东 元朗区 深圳 ... | 0km/h | 0km | 00:00:01 |
| aa | 012896001078259 | 2013-01-18 16:25:11 | 2013-01-18 16:25:12 | 中国广东 元朗区 深圳 ... | 中国广东 元朗区 深圳 ... | 0km/h | 0km | 00:00:01 |
| aa | 012896001078259 | 2013-01-18 16:25:14 | 2013-01-18 16:25:14 | 中国广东 元朗区 深圳 ... | 中国广东 元朗区 深圳 ... | 0km/h | 0km | 00:00:00 |
| aa | 012896001078259 | 2013-01-18 16:25:15 | 2013-01-18 16:25:15 | 中国广东 元朗区 深圳 ... | 中国广东 元朗区 深圳 ... | 0km/h | 0km | 00:00:01 |
| aa | 012896001078259 | 2013-01-18 16:25:15 | 2013-01-18 16:25:16 | 中国广东 元朗区 深圳 ... | 中国广东 元朗区 深圳 ... | 0km/h | 0km | 00:00:00 |

Page 1 of 1 Displaying 1 - 7 of 7

8.3 RFID Authorization

1. Set the RFID authorization, the RFID device number can be used to register RFID platform. Authorizing single device RFID.



2. RFID volume licensing, click on RFID volume licensing instructions, fill RFID starting card number, and the number of licenses will be able to volume licensing.



8.4 RFID Delete

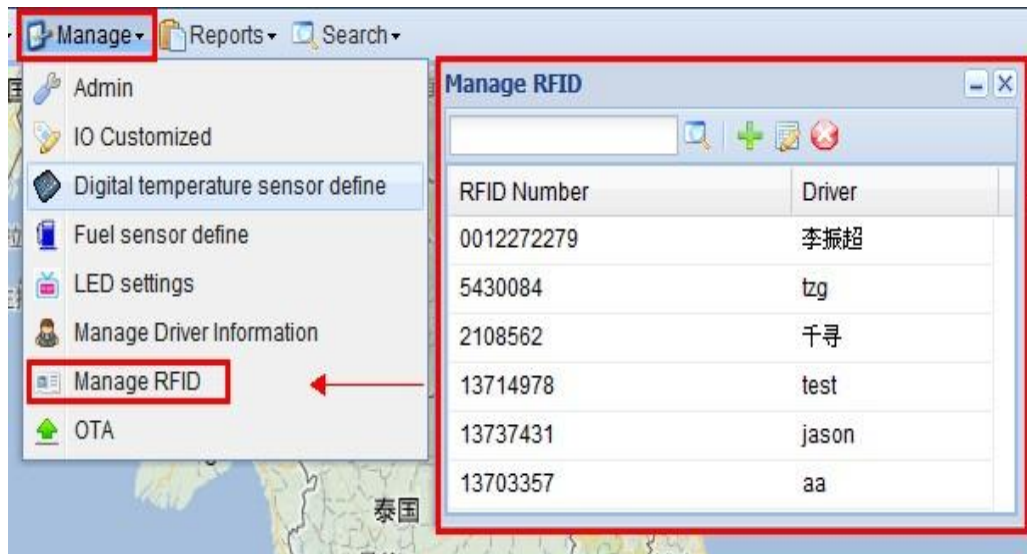
- Batch delete authorized RFID, click RFID batch delete command, fill RFID starting card number, delete the number.

8.5 RFID Management

1. Management → Management driver information, you can add the basic information of the driver so that for better vehicle management

| Name | Age | Phone | CellPhone |
|------|-----|--------|-----------|
| aa | 11 | 123456 | 123455 |
| owen | 23 | 123456 | 123455 |

2. Management → Management RFID, RFID can add registration number and the driver name, which enable to achieve of vehicle management RFID functionality.



Note: Management drivers' information need to be added first to add and manage RFID.

8.6 RFID Control Output 1

Open or close the RFID control output 1 instruction can be issued through the platform. Open: brush RFID in 1 minutes, input must be detected to a high level (the detected engine start), the output will remain off (effectively off). Such as within 1 minute, the input 3 detects low level (detected engine off), the output will remain open(void open).



Note: RFID control output 1 if necessary must be met: the RFID authorization and input 3 connected to the engine detects

9 Note

1. Upgrade unsuccessful: Please ensure that the USB232 driver is installed correctly, make sure the USB232 cable which is from Meitrack's accessories, make sure to choose the correct port.
2. RFID cannot be used: Make sure that RFID is installed correctly, made sure MVT600 connected to an external power source (9V to 36V), make sure that the T1 program is compatible with RFID, make sure that the GPRS data upload RFID event tick.

Please do not hesitate to email us at info@meitrack.com if you have any questions.