

# MEITRACK RFID User Guide




## Change History

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Supported model	T399L\T633L\MD500S\MD600\MD833H\MD300	Creation Date	2025-07-21
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### Documentation Update Records

Version	Date	Modified
2.0	2025-03-25	Initial draft.
2.1	2025-04-24	1.Added RFID Reader with 1 - wire interface supporting 13.5MHz.. 2.Add model
2.2	2025-07-21	1.Added RFID reader with 1 - wire interface supporting 125KHz.

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## 1 Product Introduction

This RFID card reader supports dual - frequency card reading, being able to read ISO 14443A cards and operate with EM4100 - based cards. It comes with an RS232 or 1-wire interface, is protected against damage, wind and rain as it is encapsulated in special materials. It is suitable for installation in various indoor and outdoor environments. Each card reader has a built - in speaker and a two - color LED to indicate the system or card - reader status. The card reader is powered by 5V direct current. It is easy to install, and its compact size provides flexible installation options: it can be installed on walls, door frames, in single - or double - combination boxes.

## 2 Specifications

### 2.1 1-Wire interface version

Specification	AR102	AR201
Support card	ISO14443A	ISO14443A
Frequency	13.56MHz	125KHz
Comunication	1-wire	1-Wire
Baud Rate	/	/
Current	< 60mA	< 60mA
Operating Temperature	-10°C to 50°C	-10°C to 50°C
Power Supply	DC 9V ~ 36V (±5%)	DC 9V ~ 36V (±5%)
Protection Rating	IP65	IP65
Card Reading Distance	0~3cm	0~5cm
Cable Interface	3PIN bare wire	3PIN bare wire
Dimension	80 x 43 x 13 mm	80 x 43 x 13 mm
Weight	150g	150g

### 2.2 RS232 interface version

Specification	AR101	AR301	AR302
Frequency	125KHz	13.56MHz / 125KHz	13.56MHz / 125KHz
Protocol	ISO14443A	ISO14443A	ISO14443A
Comunication	RS232	RS232	RS232
Baud Rate	9600	9600	19200
Current	Standby < 100mA, Peak Power < 150mA	Standby < 100mA, Peak Power < 150mA	Standby < 100mA, Peak Power < 150mA
Temperature	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C
Power Supply	5 V	5 V	5 V
Protection Rating	IP65	IP65	IP65
Card Reading Distance	0~5cm	0~5cm	0~5cm
Cable Interface	3.0 pitch 4PIN MOLEX	3.0 pitch 4PIN MOLEX	3.0 pitch 4PIN MOLEX

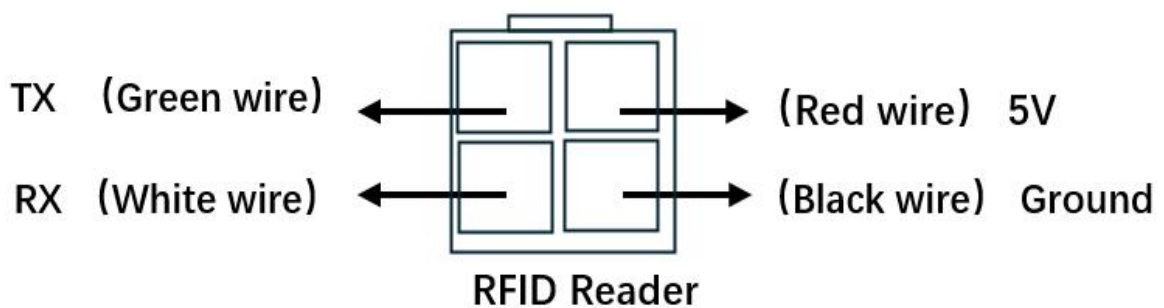
Dimension	80 x 43 x 13 mm	80 x 43 x 13 mm	80 x 43 x 13 mm
Weight	150g	150g	150g

### 3 Appearance

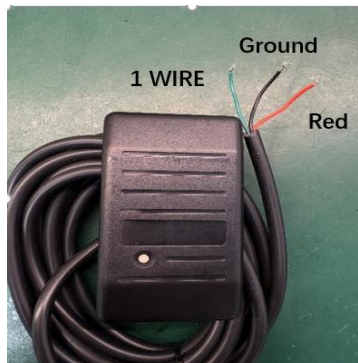


#### 3.1 4Pin Molex Interface

AR101	AR301	AR302
Red – VCC	Red – VCC	Red – VCC
Black – Ground	Black – Ground	Black – Ground
Green – TX	Green – TX	Green – TX
White – RX	White – RX	White – RX



### 3.2 1-Wire Bare Wire



1-Wire RFID Reader
Red - VCC
Black - Ground
Green - 1Wire

## 4 RFID Configuration

MM software configuration is required when connecting RFID through RX232 Interface. For example:

Low Oil Alarm Value(%) 0 Oil Change Value(%) 0

Steal Oil Alarm  
Oil Change Time Range(min) 0  
Oil Change Value(%) 0

Set

Peripheral  
RS232-2 RS232-1 RS485-1

EXT **RFID** Setting Baud rate 9600

RFID  
UI Fuel Sensor  
Card Reader  
Tire pressure

Set

Ignition Time After Swiping Cards/ Ignition Off Setting  
Ignition time after swiping cards(secs) 60  
Ignition time after ignition off(secs) 60

Set

Option COM Tool Upgrade Synchronize Parameters Factory Load Settings From File Save Settings To File

Get device settings succeed ID Library Version:2025.04.14.01

### 4.1 RFID Authorization

Enter the card number to register the ID.

Set

Peripheral  
RS232-1 RS232-2 RS485-1 RS485-2 LED1 LED2

EXT **RFID** Setting Baud rate 9600

Set

RFID bulk import and export

RFID  Hex  **1** **2** Add Delete Query

01234ABCD

Total: 1 **3** Export Import Read Set

Option COM Tool Upgrade Synchronize Parameters Factory Load Settings From File Save Settings To File

## Import ID list in batch

RFID bulk import and export

RFID  Hex

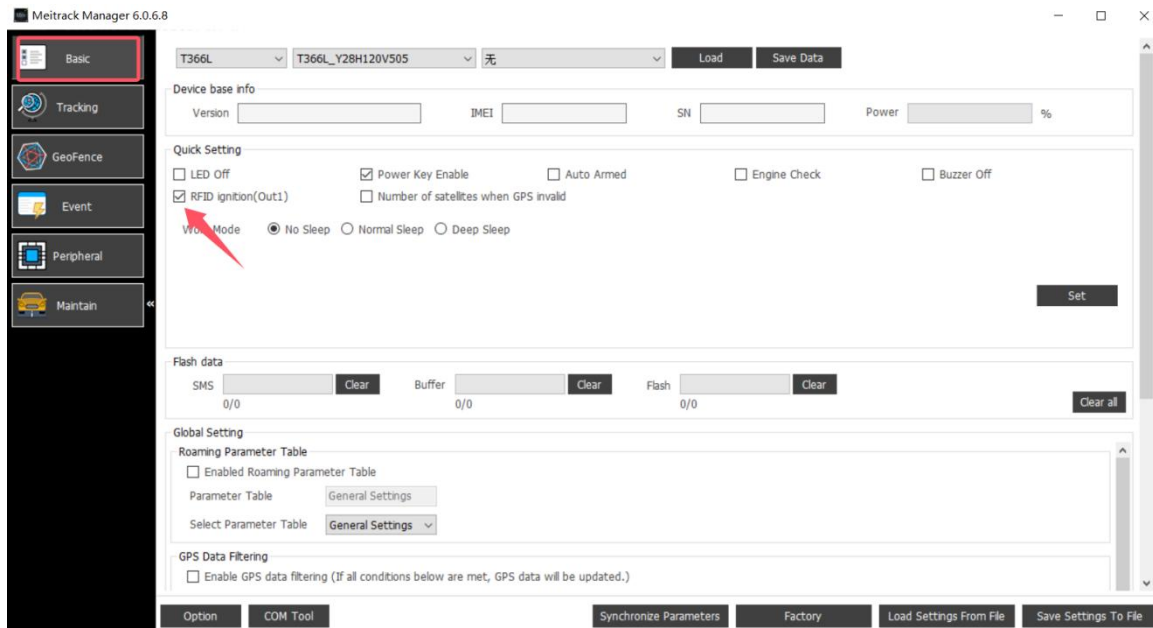
import Excel sheet of ID list

Total: 0

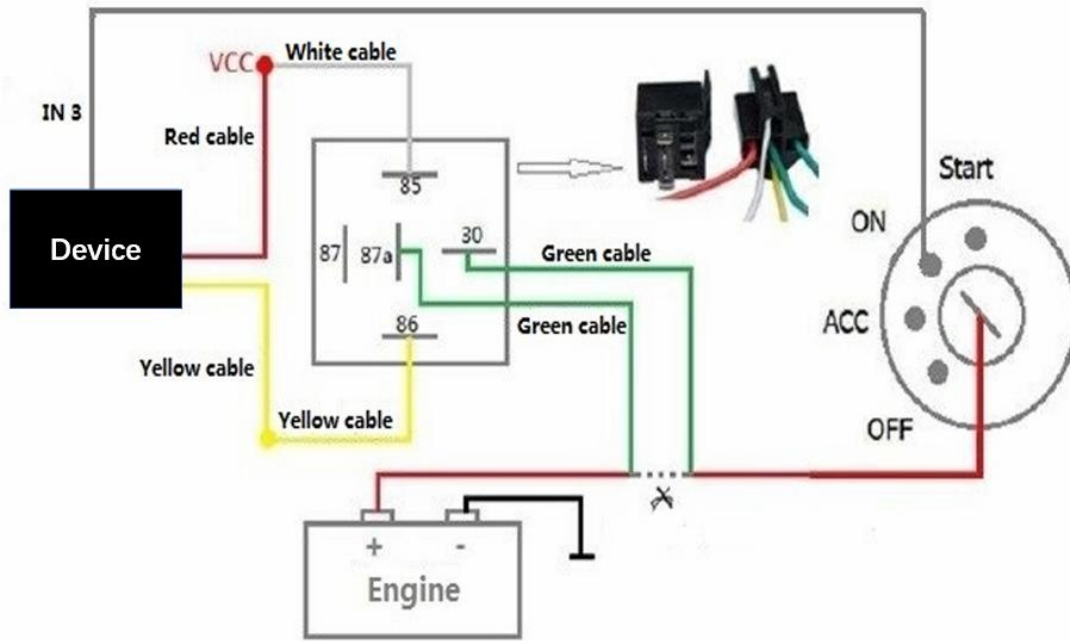
## RFID Control OUT1

When RFID ignition is enable, output 1 will be activated by default. Swiping Card is required to turn output1 to be inactivated.

After swiping an authorized ID card, the driver must start the engine within 1 minute. If the time exceeds one minute, Output 1 will cut off the engine, and the driver will be unable to start the vehicle. To start the vehicle again, the driver must swipe the RFID proximity card once more.



Output 1 control engine via Relay, the connection diagram is as follows:



If you have any questions, do not hesitate to email us at [info@meitrack.com](mailto:info@meitrack.com).