

MFS-U02-RS232 Installation & Configuration

1. Device Peripherals Access

1) Device Serial Self-test

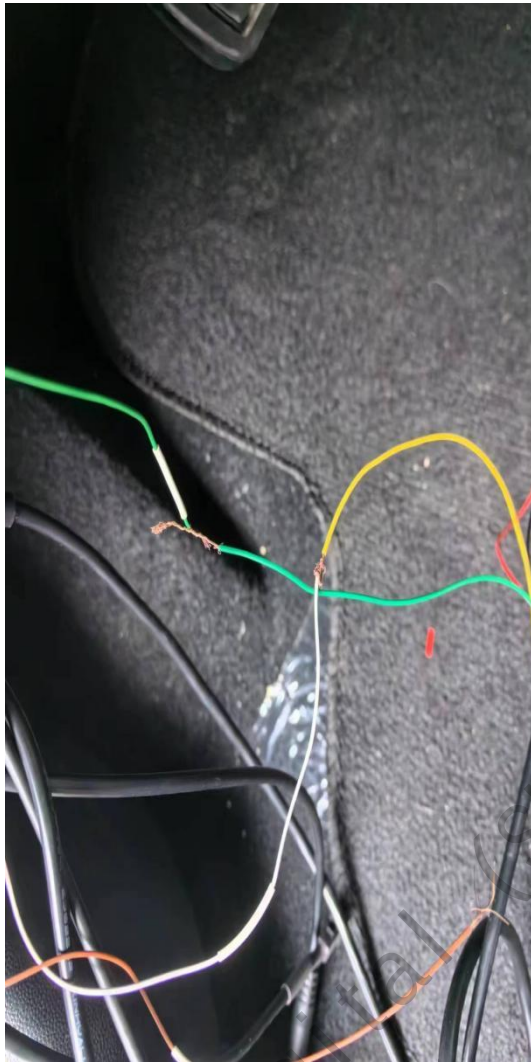
After supplying power to the device, connect the device's TX and RX.

Opening MXtool > Settings > Uart Test, Clicking 'Start'.



2) Device Access Peripherals

Connects the device TX to peripheral RX and the device RX to peripheral TX.



2. Device Peripheral Configuration

After the device and peripherals are connected, please use MXtool to configure the power supply for the device and peripherals.

MXtool > Setting > Uart Test, Setting Serial communication format

MXtool > Setting > Serial Information, Checking the peripheral connection status.

If the connection status is abnormal, you can swap the TX and RX.

 **COM1**

peripheral	
Function	Temp-THIIT >
Type	232 >
Baud Rate	9600 >
Data Bit	8 >
Stop Bit	1
Parity	None

Save

 **Serial Information**

Name	COM1
Function	Temp-THIIT
Status	abnormal
Remarks	

3. Device Peripheral Installation

MFS-U02-RS232 is an ultrasonic fuel sensor peripheral that needs to be attached to the bottom of the oil tank. For accurate measurements, it is best to attach it to the center of the bottom of the tank.

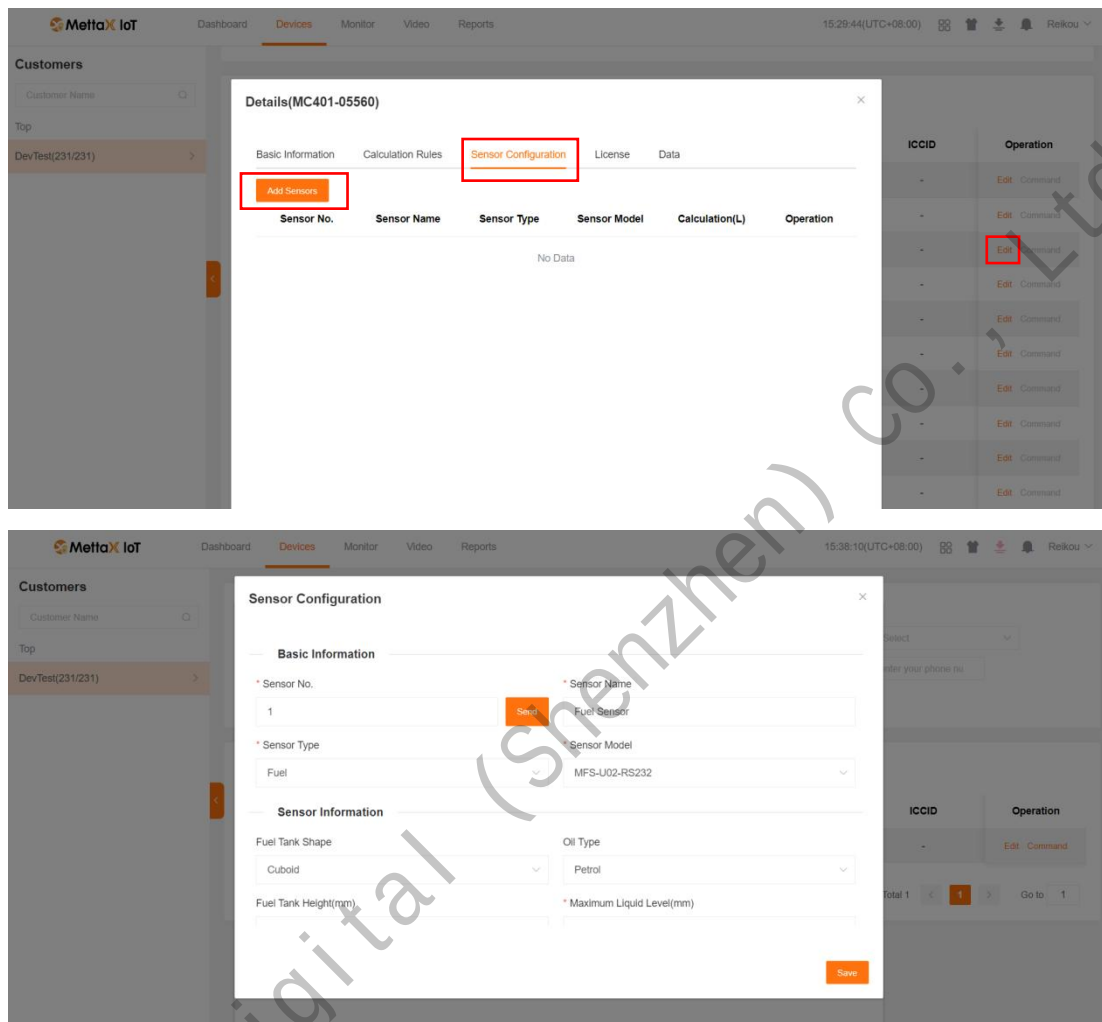
For detailed installation steps and instructions, please refer to the MFS-U02-RS232 manual, which provides a comprehensive description.



4. MettaxIoT Platform Configuration

1. Add Sensors

Devices > Edit > Sensor Configuration > Add Sensors



The tank configuration should match the actual size of the tank. The maximum oil volume should be consistent with the actual capacity of the tank, which may differ from the calculated tank volume displayed on the page.

Sensor Configuration

Sensor Information

Fuel Tank Shape: Cuboid

Oil Type: Petrol

Fuel Tank Height(mm): 1600

* Maximum Liquid Level(mm): 1600

Fuel Tank Capacity(L): 504

* Maximum Oil Volume(L): 50

* Calculation(L): Liquid Level Calibration(0.1)

Save

Sensor Configuration

Calibration Rules

Comparison	Comparison Value(mm)	Calibration Value(L)	Operation
<=	47	12.5	Delete
<=	94	25	Delete
<=	188.5	50	Delete

Add

Save

After adding the configurations, save it and wait for the device to report the peripheral data. You can view the oil quantity data in the report afterward.

2. View the Oil Quantity Reports

Reports

Oil Quantity

Device: MC401-02264

Oil Quantity: Select

Please enter the oil: Search

Reset

No.	Device Name	IMEI	Time	Location Type	Remaining Oil Quantity	Coord	Operation
1	MC401-02264	114800002264	2024-05-14 10:58:34	Unlocalized	0 L	113.937964	History

Export

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