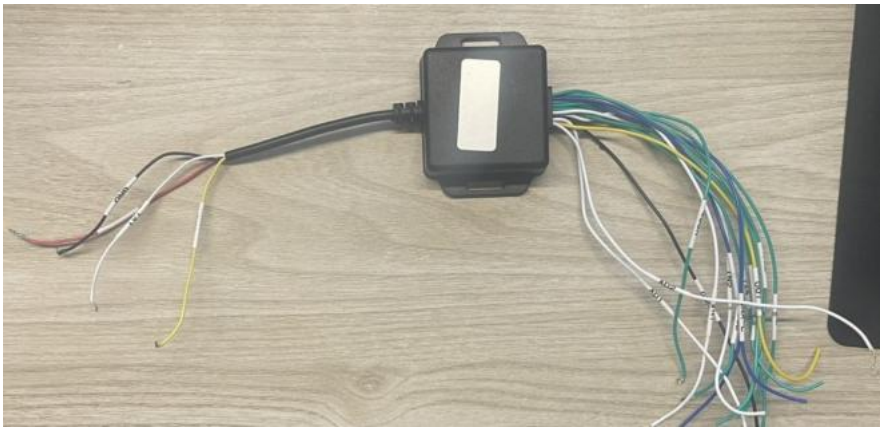
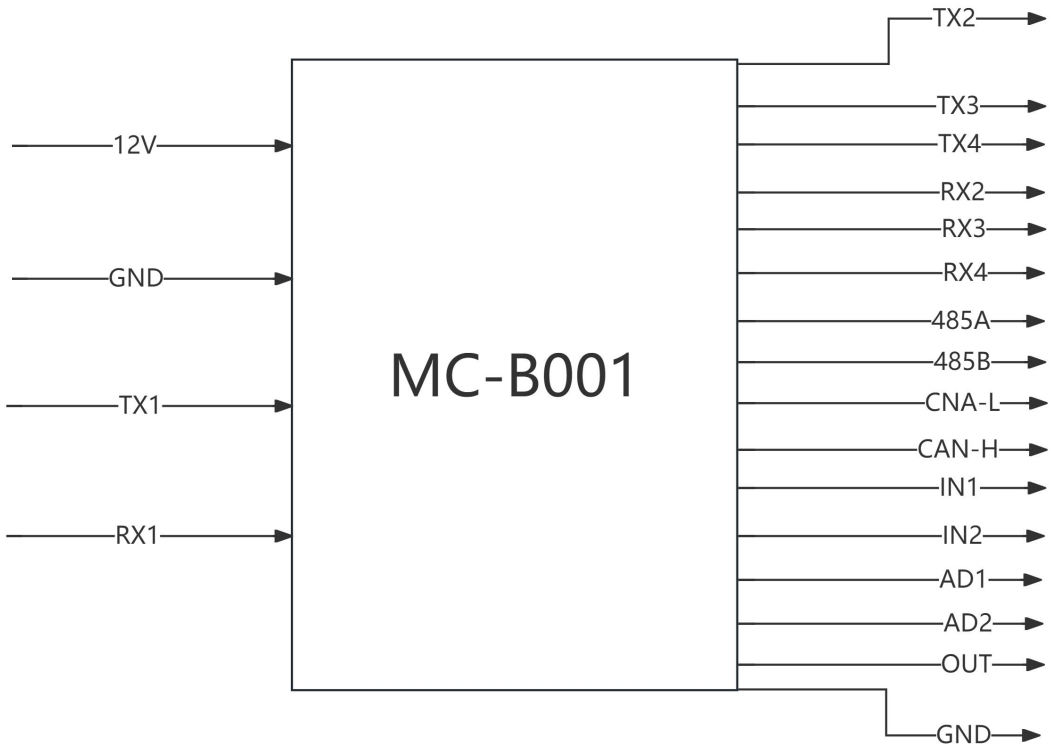
MC-B001 ADC Wiring And Configuration

1. Product introduction

Item		Parameter
Interface	ADC	2 channels
	IO IN	2 channels
	RS485	1 port
	RS232	3 ports
	CAN	1 port
	IO OUT	1 channel
Baud rate		115200
Input voltage		DC：+12V
Power consumption		<1W
Operating temperature		-20℃ to +70℃
Operating humidity		20% to 80%
Exterior dimensions		51mm * 51mm *20mm





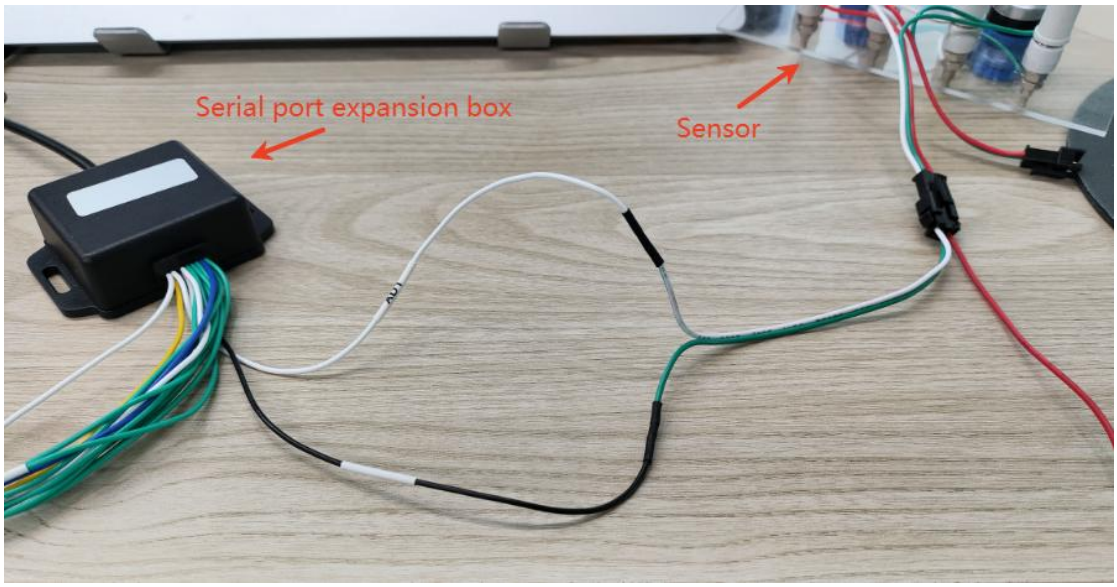
2. Wiring instructions

1）MC-B001 power supply wiring

The B+ of MC-B001 needs to the positive pole of the 12V power supply,and the GND of MC-B001 needs to be connected with the Dashcam & MDVR host and the sensor.

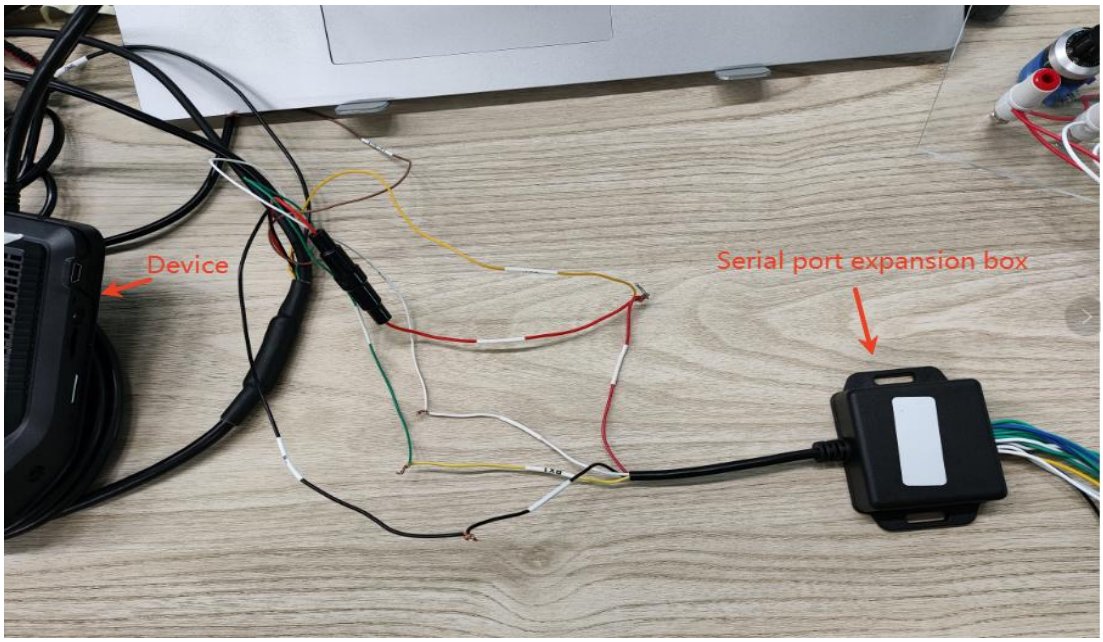
2）Wiring between MC-B001 and Sensor

Connected the AD line of MC-B001 to the OUT line of the ADC sensor.



3）Dashcam & MDVR Host Wiring to MC-B001

The MC-B001 TX is connected to the host RX,and the MC-B001 RX is connected to the host TX.(For MC202,use the TX of the host to connected to the TX of MC-B001)



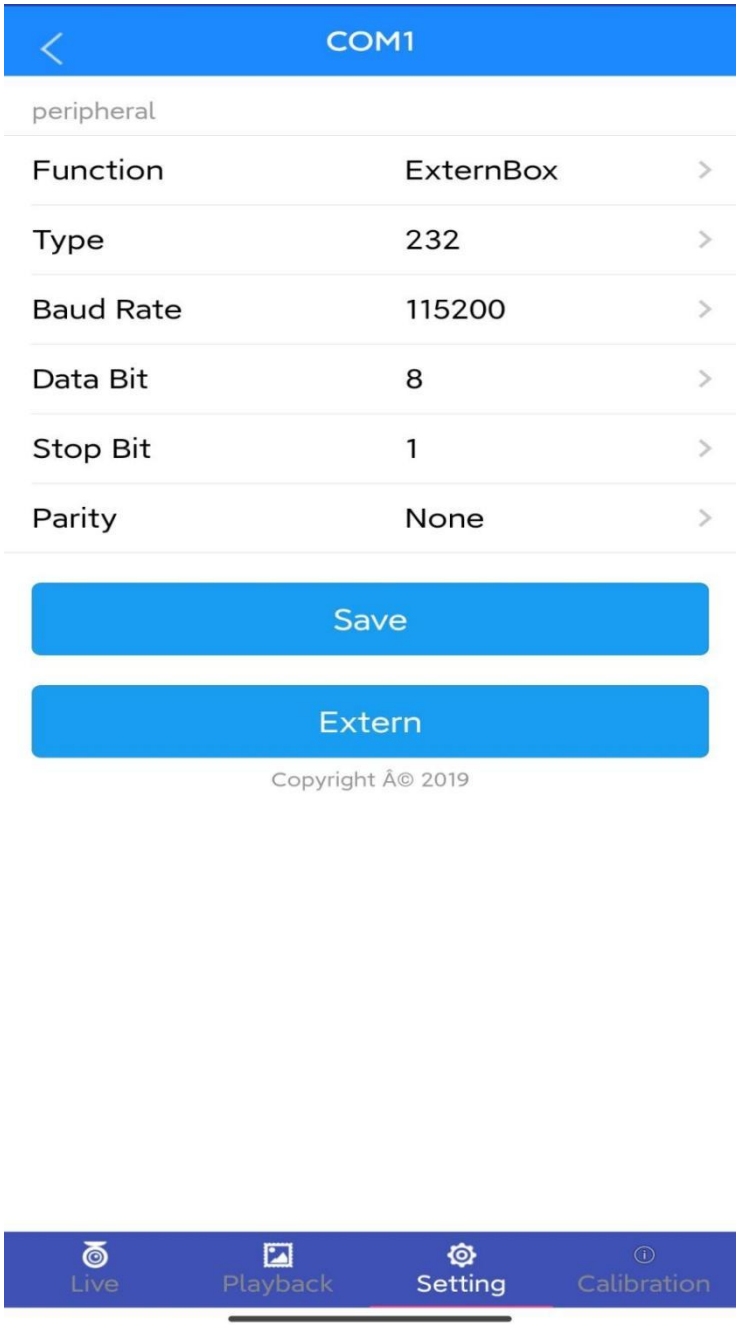
3. Dashcam & MDVR Host Configuration

After completing the Wiring,power on the host and accessories,connect the phone

to the WIFI of the host,and then use the configuration APP(MCTool) to configure the parameters.The specific configuration is as follows:

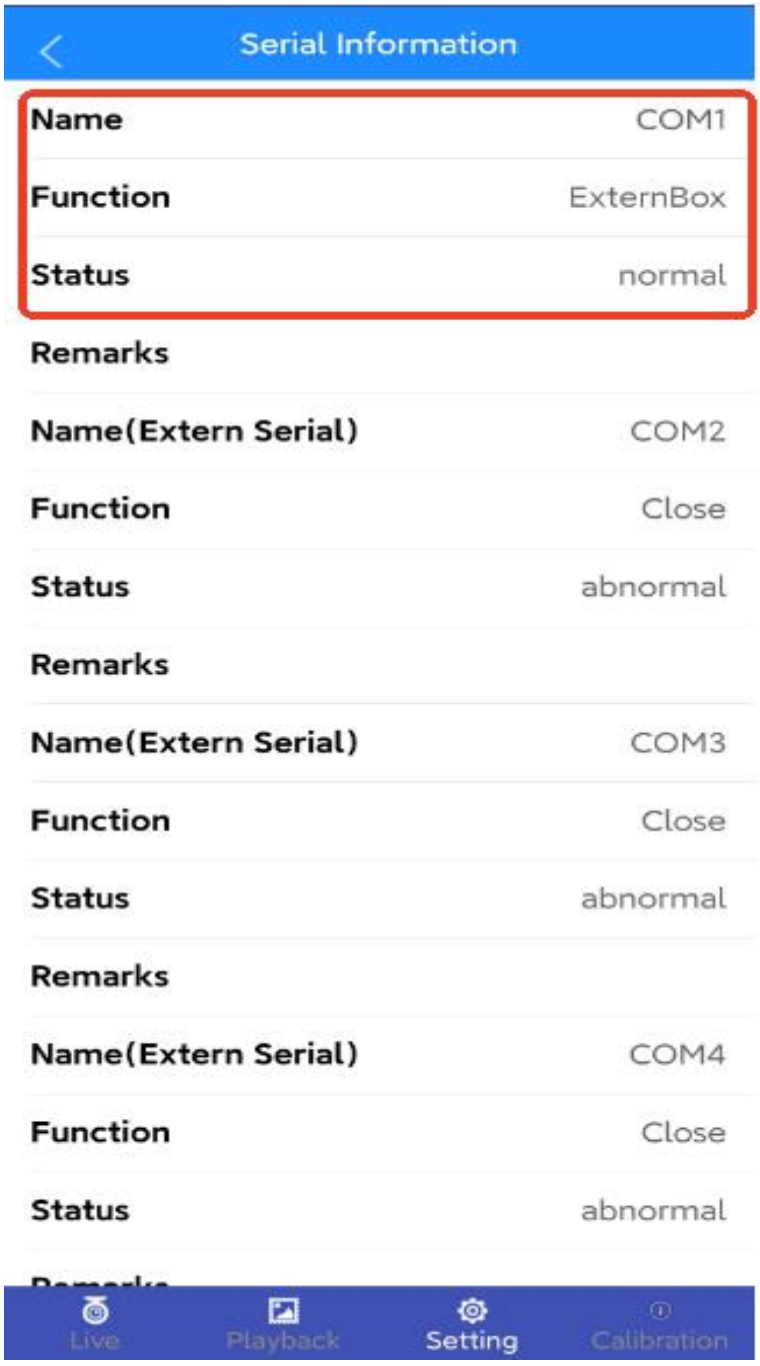
1）MCTool> Setting > Peripheral > COM1

- Function is selected as ExternBox
- Baud Rate is selected as 115200
- Keep others as default



2） MCTool> Setting > Serial information

- Check whether the Status of COM1 is normal



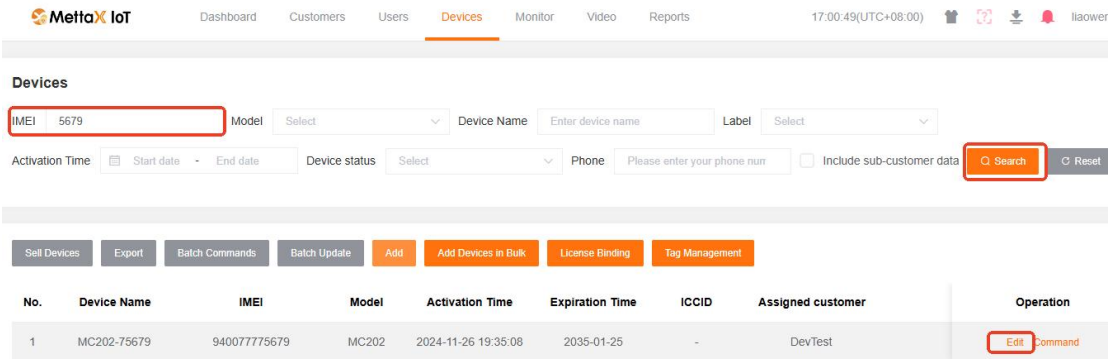
4. MettaXIoT Platform configuration

1）Monitor

Please make sure the device is online on the MettaXIoT and has valid anchor point information.

2）Devices > IMEI > Search > Edit

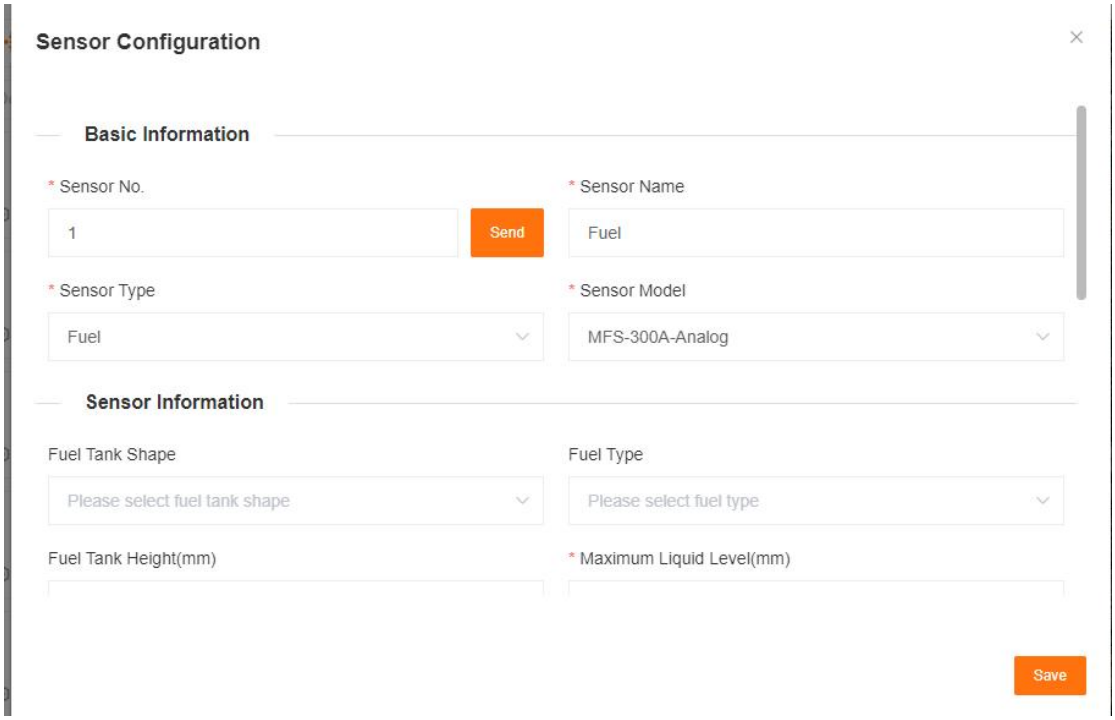
Find the device to be configured in the platform and edit it.



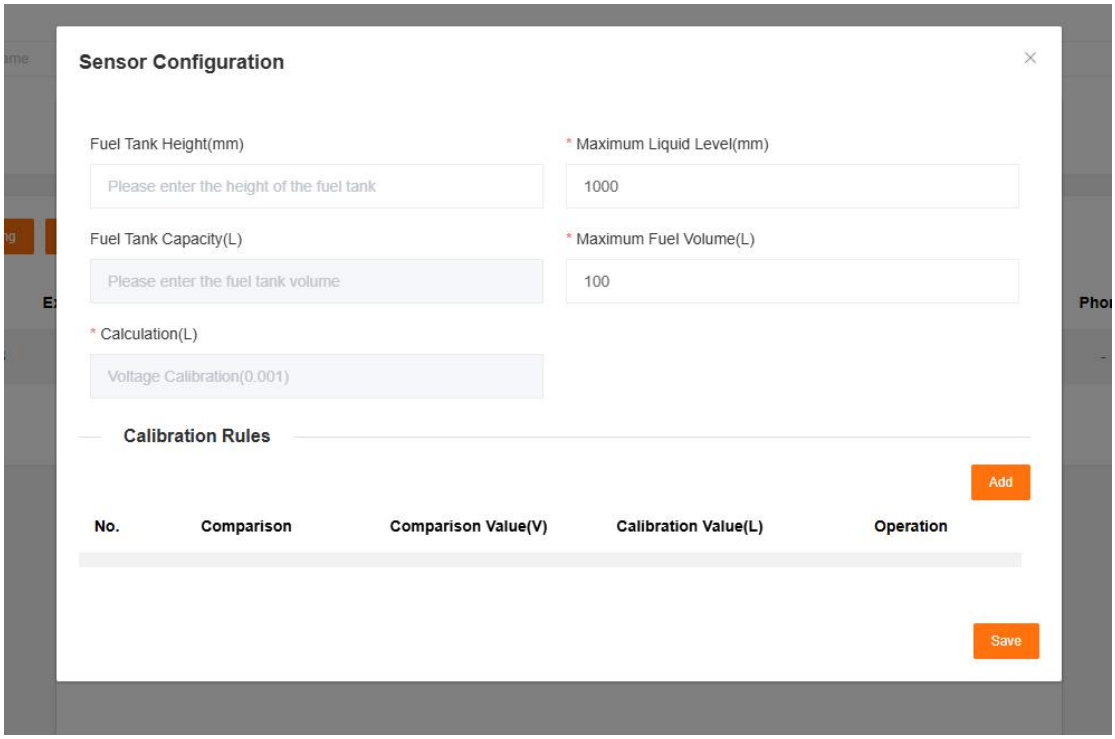
3）Sensor Configuration > Add Sensors

Add a new Sensors.

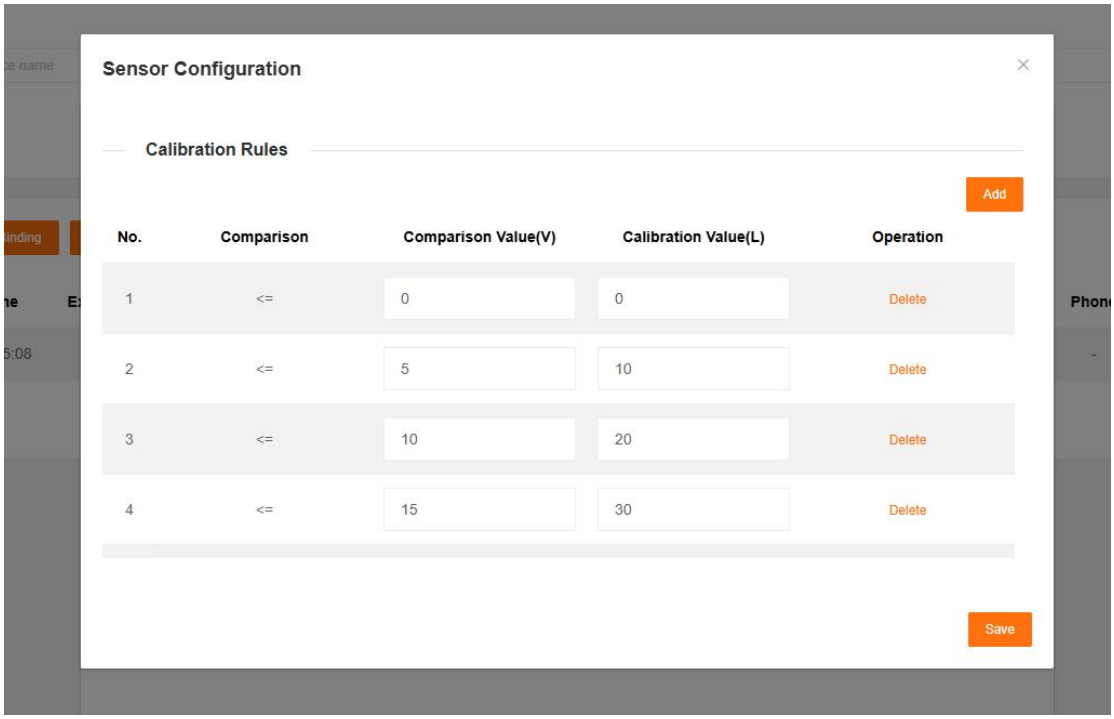
- Sensor No is filled with 1 by default
- The Sensor Name can be filled in as required
- Sensor Type can be selected as required (The oil sensor will be taken as an example in the article),and Fuel
- The Sensor Model has a choice of Analog-enabled sensors,such as MFS-300A-Analog



Then based on the actual situation of the vehicle's fuel tank,fill in the Maximum Liquid Level(mm)and Maximum Fuel Volume(L)information.

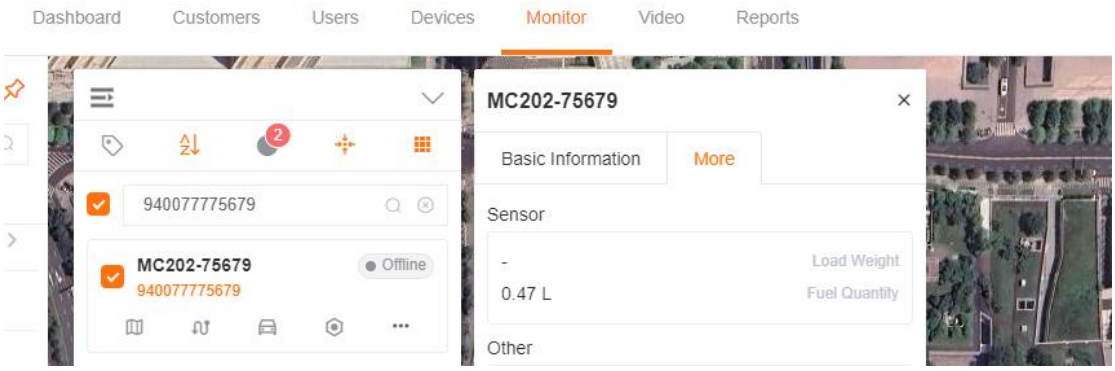


Finally,based on the voltage values read and the remaining fuel quantity of the fuel tank,the voltage values and the remaining fuel quantities are correspondingly calibrated.The smaller the interval,the higher the accuracy.

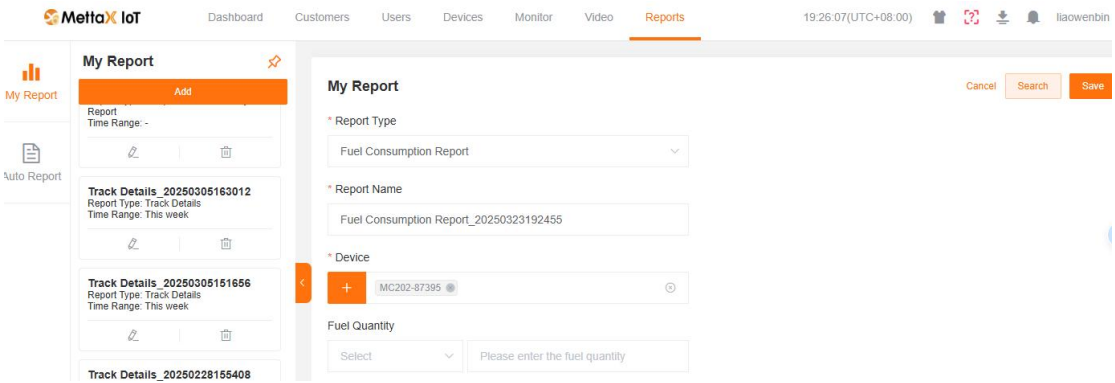


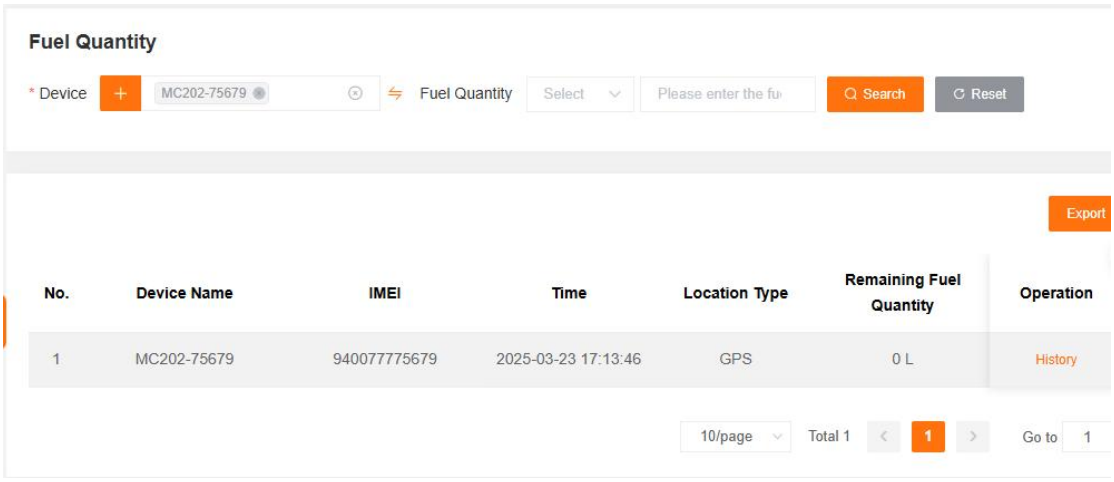
5. MettaXIoT Platform Information Presentation

The current remaining oil quantity can be viewed in the Monitor.



Or view the history in the oil quantity report.




Fuel Quantity
* Device
MC202-75679
Fuel Quantity
Select
Please enter the fu
Search
Reset
Export
No.
Device Name
IMEI
Time
Location Type
Remaining Fuel Quantity
Operation
1
MC202-75679
940077775679
2025-03-23 17:13:46
GPS
0 L
History
10/page
Total 1
1
Go to
1


Fuel Quantity-MC908-85872(940073685872)
Search
Reset
Chart
Report
Fuel Quantity
Remaining Fuel Quantity(L)
Instantaneous Speed(km/h)
Accumulated Mileage(km)
2025-03-21 16:12:21
Remaining Fuel Quantity(L) 0
Instantaneous Speed(km/h) 3.5
Accumulated Mileage(km) 261.2