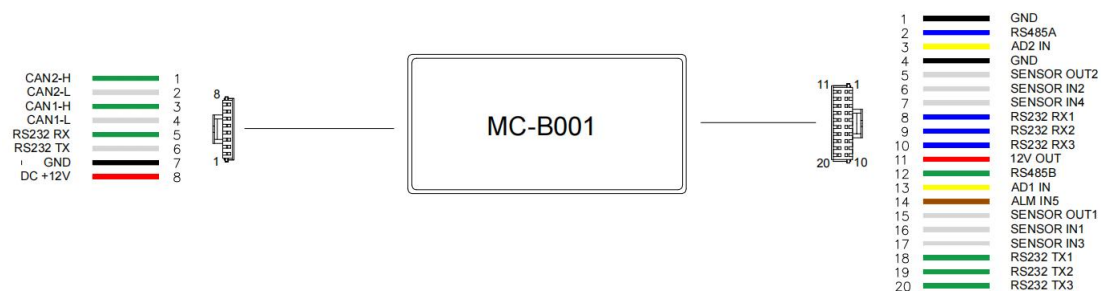


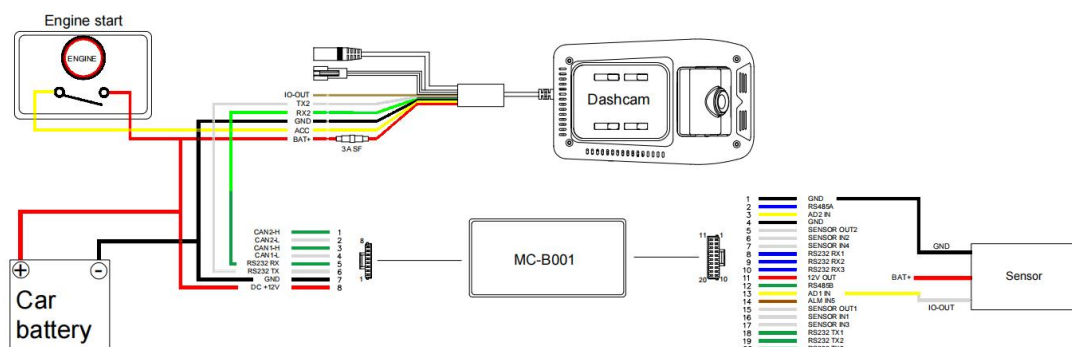
MC-B001 ADC Wiring And Configuration

1. Product introduction

Item	Parameter
Interface	ADC
	IO IN
	RS485
	RS232
	CAN
	IO OUT
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

<

COM1

peripheral

Function	ExternBox	>
Type	232	>
Baud Rate	115200	>
Data Bit	8	>
Stop Bit	1	>
Parity	None	>

Save

Extern

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2) MCTool> Setting > Serial information

- Check whether the Status of COM1 is normal

<Serial Information

Name

COM1

Function

ExternBox

Status

normal

Remarks

Name(Extern Serial)

COM2

Function

Close

Status

abnormal

Remarks

Name(Extern Serial)

COM3

Function

Close

Status

abnormal

Remarks

Name(Extern Serial)

COM4

Function

Close

Status

abnormal

Remarks

Live

Playback

Setting

Calibration

5 / 9

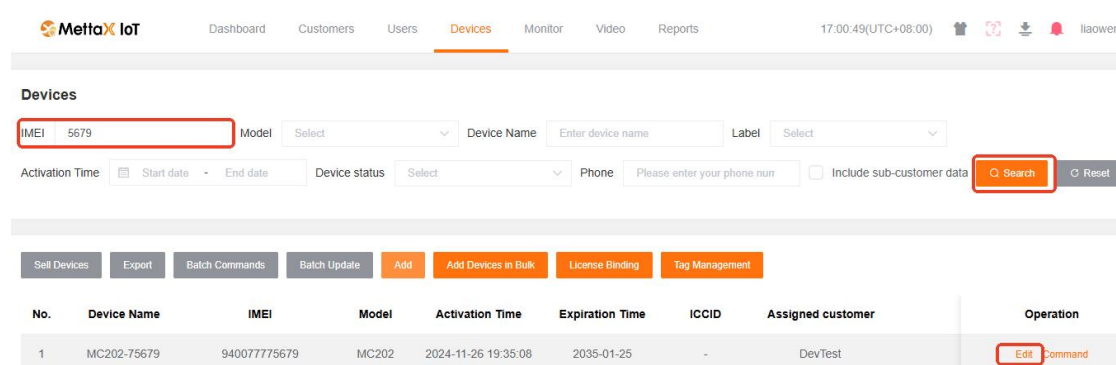
4. MettaXIoT Platform configuration

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.



The screenshot shows the MettaX IoT platform interface. The top navigation bar includes 'Dashboard', 'Customers', 'Users', 'Devices' (highlighted), 'Monitor', 'Video', and 'Reports'. The 'Devices' section is active, showing a search filter for 'IMEI' with the value '5679' highlighted in a red box. Below the search filters, there is a table of devices. The first device is highlighted, and the 'Edit' button in the 'Operation' column is highlighted with a red box.

No.	Device Name	IMEI	Model	Activation Time	Expiration Time	ICCID	Assigned customer	Operation
1	MC202-75679	940077775679	MC202	2024-11-26 19:35:08	2035-01-25	-	DevTest	Edit Command

3) Sensor Configuration > Add Sensors

Add a new Sensors.

MC202-75679(940077775679)



The screenshot shows the 'Sensor Configuration' tab in the MettaX IoT platform. The 'Add Sensors' button is highlighted with a red box.

- 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

Sensor Configuration

Basic Information

* Sensor No.

1

Send

* Sensor Name

Fuel

* Sensor Type

Fuel

* Sensor Model

MFS-300A-Analog

Sensor Information

Fuel Tank Shape

Please select fuel tank shape

Fuel Type

Please select fuel type

Fuel Tank Height(mm)

* Maximum Liquid Level(mm)

Save

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.

Sensor Configuration

Fuel Tank Height(mm)

Please enter the height of the fuel tank

* Maximum Liquid Level(mm)

1000

Fuel Tank Capacity(L)

Please enter the fuel tank volume

* Maximum Fuel Volume(L)

100

* Calculation(L)

Voltage Calibration(0.001)

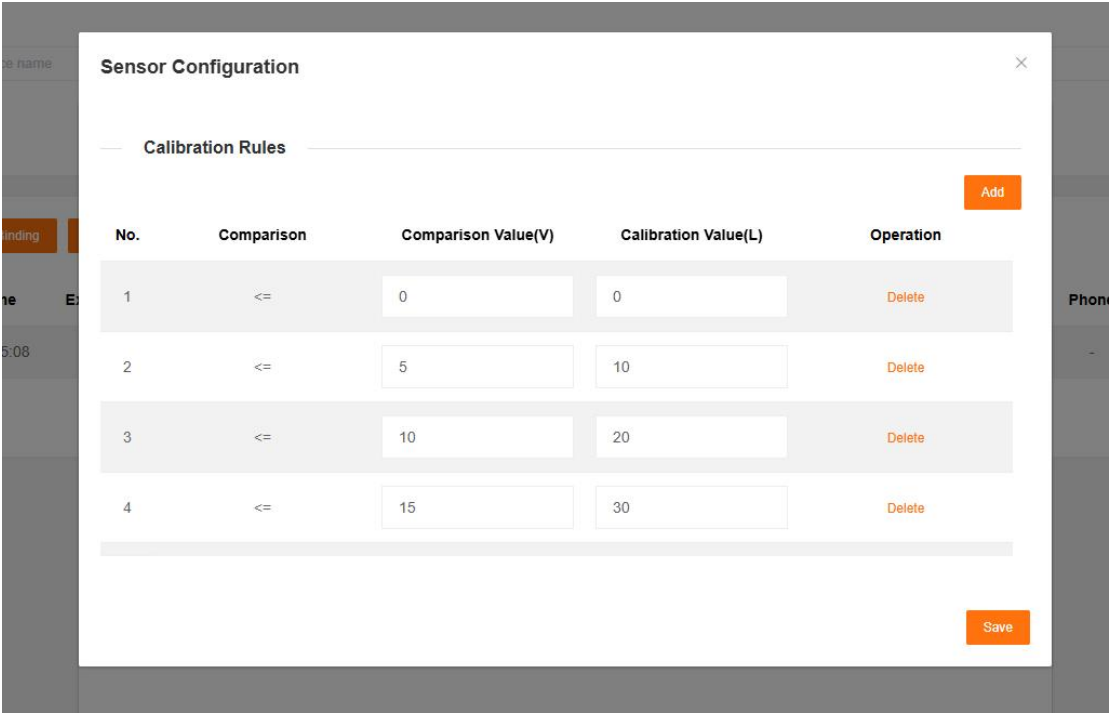
Calibration Rules

Add

No.	Comparison	Comparison Value(V)	Calibration Value(L)	Operation
-----	------------	---------------------	----------------------	-----------

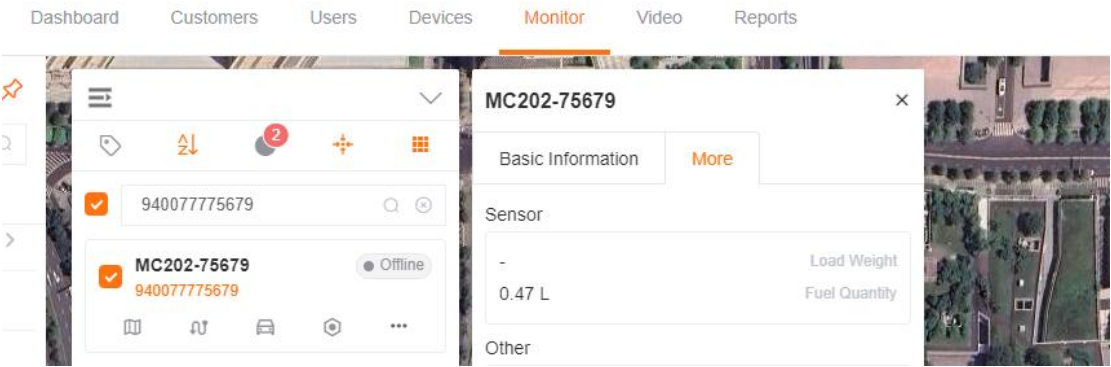
Save

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.

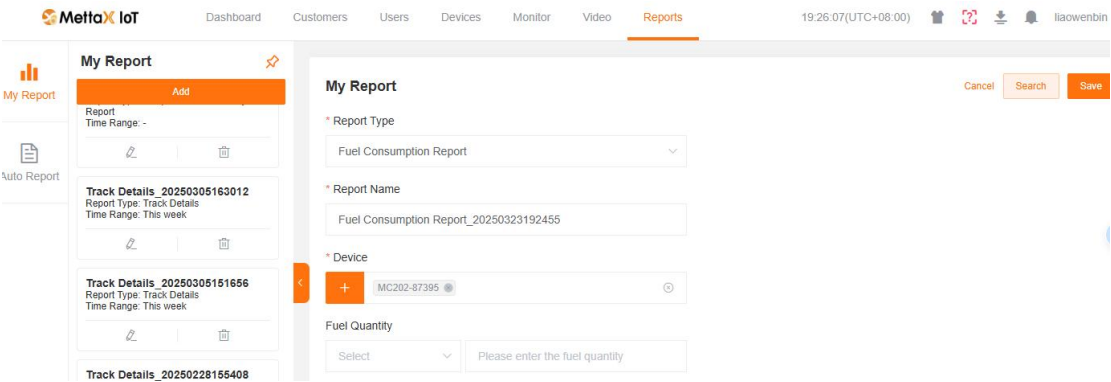


5. MettaXIoT Platform Information Presentation

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

