

Aeropulse MQTT Configuration

This document explains how to configure MQTT to transmit data to the customer's server.

Step 1

Use the Aeropulse App to configure Wi-Fi for the device, and add the device on the Aeropulse dashboard using the device's MAC address.

Step 2

On the Aeropulse dashboard, create the user's MQTT server information under: Settings/MQTT Settings. Please perform a connection test before clicking confirm.

Aeropulse

Devices

Compare

Alert

Export

Kiosk view

Setting

Deployment

Your account

Log out

Basic information

Preference

MQTT Setting

* MQTT Server Name

Please enter server name

MQTT Setting Info

* Host

Please enter host

* Port

Please enter port

* User Name

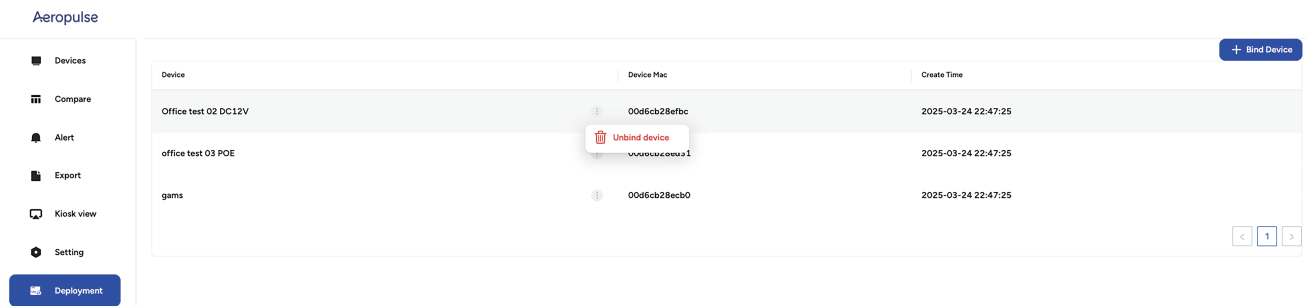
Please enter user name

* Password

Please enter password

Step 3

In the Aeropulse dashboard's Deployment section, bind or unbind the device to the user's server.



Step 4

Subscribe to the topic to retrieve data. Additional details are provided below.

Self-Hosted MQTT Server Configuration

Configuration Item	Required (Y/N)	Notes
MQTT Name	Y	Name of the self-hosted MQTT, not used as a connection parameter
Host	Y	Server information corresponding to MQTT
Port Number	Y	Server information corresponding to MQTT
Username	Y	User account for the MQTT server
User Password	Y	User password for the MQTT server
Client-ID	Y	Used for push server connection info, recommended to be unique and avoid special characters
Topic	Y	Topic for push messages; all devices set to push will send data to this topic. It's recommended that customers distinguish devices based on MAC address
Authorization Code	Y	Contact the platform for provision

Push Message Description

Configuration Item	Required (Y/N)	Notes
deviceName	N	Device name, typically filled in when adding the device
deviceMac	Y	
aqi	Y	
co2	Y	
tvoc	Y	
pm25	Y	PM2.5
pm10	Y	PM10
temperature	Y	
humidity	Y	
pressure	Y	
light	Y	
noise	Y	
rssi	Y	
dataTime	Y	Data timestamp, e.g., 2025-03-23 22:06:50
manufacturer	Y	Manufacturer model, e.g., A100
battery	Y	
pc03	Y	
pc10	Y	

pc25	Y	
nox	Y	
ozone	Y	
no2	Y	
co	Y	
tvTime	Y	Usage duration of the TVOC module
pmTime	Y	Usage duration of the PM2.5 module
ncTime	Y	Usage duration of the NO2 & CO module
o3Time	Y	Usage duration of the O3 module

Push Message Example:

```

json
{
  "deviceName": "ok-test",
  "deviceMac": "00d6cb28edf7",
  "aqi": 64.23,
  "co2": 990,
  "tvoc": 102,
  "pm25": 9,
  "pm10": 9,
  "temperature": 27.65,
  "humidity": 15,
  "pressure": 1001,
  "light": 133,
  "noise": 59,
  "rssi": -50,
  "dateTime": "2025-03-24 14:09:00",
  "manufacturer": "A101C",
  "battery": 65535,
  "pc03": 1268,
  "pc10": 0,
  "pc25": 1,
  "nox": 0,
  "ozone": -1,
  "no2": -1,
  "co": -1,
  "tvTime": 93,
  "pmTime": 107,
  "ncTime": 0,
  "o3Time": 0
}

```

Notes

- 1.Ensure that the MQTT configuration parameters are accurate to avoid connection or data push failures.
- 2.After subscribing to the Topic, customers can distinguish data from different devices based on the deviceMac.
- 3.For authorization codes or further support, please contact the Aeropulse.