



MerryloT Sensors & App Quick Installation Guide





1.	Safety Warning3
2.	Open Box Content List4
3.	Sensor Input/ Output6
4.	Sensor Introduction8
5.	Sensor Installation9
6.	Sensor APP functions17
7.	Battery Replacement21
8.	FAQ26
9.	Copyright Notice27



Read this manual before attempting to install the device!

Failure to observe recommendations included in this manual may be dangerous or cause a violation of the law. The manufacturer, **Browan Communications Inc.** will not be held responsible for any loss or damage resulting from not following the instructions of this user manual.

- The device must not be dismantled or modified in any way.
- The device is only intended for indoor use. Do not expose it to moisture.

• The device is not intended to be used as a reference sensor, and **Browan Communications Inc.** will not be held liable for any damage which may result from inaccurate readings.

- The battery should be removed from the device if it is not to be used for an extended period. Otherwise, the battery might leak and damage the equipment. Never leave a discharged battery in the battery compartment.
- The device must never be subjected to shocks or impacts.
- To clean the device, wipe with a soft moistened cloth. Use another soft, dry cloth to wipe dry. Do not use any detergent or alcohol to clean the device.

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MerryloT Open / Close(DW10)



MerryloT Leak Detection(WL10)



Chapter 3 - Input / Output

MerryloT Air Quality CO2(CD10)



MerryloT Motion Detection(MS10)



Chapter 3 - Input / Output

MerryloT Open / Close(DW10)



MerryIoT Leak Detection(WL10)



Chapter 4 - Sensor Introduction



CD10

MerryloT Air Quality CO2 sensor (CD10) is a professional LoRaWAN smart device. Its minimalistic design makes it ideal for mounting on walls at home or at work. It provides full surveillance over the CO2 levels, temperature, and humidity.

Features:

- 3 sensors in 1 (CO2 & Temperature & Humidity)
- Built-in buzzer for alarm if the CO2 level is more than 1000 ppm
- LoRaWAN technology with a long communication distance
- Coverage test button for easy installation
- Up to 2 years of battery lifetime *Note: Battery life is mainly determined by the reporting frequency. Other factors include moisture and high temperature.



MerryIoT Motion Detection MS10

MerryIoT motion detector (MS10) is an easy step to a safer home. Monitor front and back doors, driveways, sheds, garages, and gates. It can be applied to all your properties. It provides an additional level of security and safety to your properties and protects your loved ones. Not to mention is alerts you in case of emergency.

Features:

- 4 sensors in 1 (PIR & Temperature & Humidity & Vibration)
- Detect human presence accurately
- LoRaWAN technology with a long communication distance
- Coverage test button for easy installation
- Alarm message for the device is been moved or tampered
- Up to 3 years of battery lifetime *Note: Battery life is mainly determined by the reporting frequency. Other factors include moisture and high temperature.
- Ultrawide range detection
 - 125° Horizontal
 - 100° Vertical
 - Up to 7 m distance



The MerryIOT Open/Close sensor (DW10) give you a peace of mind, anywhere, anytime. Get real time alerts at the exact moment you have unexpected guests, broken windows, opened safes, an opened mailbox or escaped pets.

Features:

- 4 sensors in 1 (Open/Close & Temperature & Humidity & Vibration)
- LoRaWAN technology with a long communication distance
- Alarm message for the device is been moved or tampered
- Coverage test button for easy installation

MerryloT Open / Close DW10

Up to 3 years of battery lifetime
 *Note: Battery life is mainly determined by the reporting frequency. Other factors include moisture and high temperature.

Chapter 4 - Sensor Introduction



MerryIoT Leak Detection WL10

The MerryIoT Water Leak Sensor (WL10) will in real-time alert you the moment it comes in contact with leaking water. Don't ever worry about leaks or floods in your basement, under your sinks, from your water heater, or anywhere else in the house.

Features:

- 4 sensors in 1 (Drip/Leak/Flood & Temperature & Humidity & Vibration)
- Built-in water-sensing probes on top and bottom for leak/flooding detection
- LoRaWAN technology with a long communication distance
- Coverage test button for easy installation
- Alarm message for the device is been moved or tampered
- Up to 3 years of battery lifetime *Note: Battery life is mainly determined by the reporting frequency. Other factors include moisture and high temperature.

Chapter 5 - Sensor Installation

1 Please make sure you have Helium coverage before installing the MerryIoT Sensors.

1. Best senerio is you already have a Helium miner up and running.

2. If you don't have a Helium miner running, you need to check your neighborhood's helium coverage. Go to https://explorer.helium.com and follow the following steps.

1 Press "find my location" icon, and the map will redirect to the vicinity of your location.

2 According to the vicinity of your location, to find your accurate location to see if any Helium coverage around here.



*Annotation: Hexagons in Helium, it is a semi-precise point location covering 300 m² (3200 ft²), which is comparable to the footprint of a large house. The number display on the Hexagons, it means how many Helium hotspot is been asserted location here, you could imagine that how many Helium hotspots installed in 300 m² (3200 ft²).

2 Install and launch MerryloT mobile application on your phone



3 Register your account.

Sign in by social media



Q

4 Add your device to the App

Click the "complete", after the group page show, you successfully added your sensors!



MerryloT Motion Detection MS10





fill in the name and the location

 $\overline{}$



MerryloT Open/Close

DW10















































the group page show, you successfully added your sensors!

Click the "complete", after

5 When the sensor is successfully online, the LED will go on to constant lumination for 3 seconds.

6 Once the Sensor is successfully connected, the following icon will appear on the dashboard *Press the button on the senser, the sensor's real-time status will be updated.

MerryloT Air Quality CO2 CD10



MerryloT Motion Detection







MerryloT Open/Close DW10



MerryIoT Leak Detection WL10







Once the Sensor is connected, install the Sensor to your desired location

MerryloT Air Quality CO2(CD10)

It is important to know, that the CO2 sensor unit should be mounted at 48 inches or 122cm above the floor, and they should not be near outside doors or windows that can make the space appear to have more fresh air than it actually does. Think of CO2 flowing like water. Water will fill a cup from the bottom upwards. The same will happen in interior spaces like draft coolers, restaurants, breweries, and grow facilities. Because the CO2 gas is heavier than normal air it will flow down stairs or collect in low lying areas first.

So, please avoid these placement:

- Restricted air flow
- In derict sunlight from windows
- Close to heat source



MerryloT Motion Detection(MS10)

Assets where intruders are most likely to enter, or other applications like occupied space purpose. Places like:

1. Garage Entrence (for security purpose)

The eye of the sensor should point to the direction where the intruders may come from.

2. Meeting Room (for occupied space purpose)

It is recommanded to install 2 MerryIoT Motion Detections in one space where you would like to know whether the space is occupied or not.

One with the eye of the sensor pointing the entrence of the space, and the other one pointing at where people assumed to be stayed in the space, the meeting table in this case.



Garage Entrence



MerryloT Open/Close(DW10)

1. Clean the installaon area.

2. Remove the protecve layer from the double-sided tape on the door sensor, place the door sensor in the desiredposion(the fixed part of your door or window), and press firmly for at least 5 seconds.

3. Remove the protective layer from the double-sided tape on the magnet, place the magnet in the desired postion(align the magnet marking with the hall sensor marking on the sensor), and press firmly for at least 5 seconds.

*Note: the maximum sensing distance is 10mm.



In any rooms / mailbox on the window or door

MerryloT Leak Detection(WL10)

The most common application for our water detection sensors is underneath AC units that are susceptible to leaks. However, it is important to ensure you cover other potential threats such as existing pipework, heating systems, kitchens, toilets and areas that may be likely to flood first in the event of extreme weather conditions (by doors/windows)

It is recommanded to install mulitple MerryIoT Leak Detection in one space, where the potential leakage may occure. 1. For Home basement use

- 2. For conver rooms and data
- 2. For server rooms and data centers



In the kitchen cabinet, where the water pipes locate



MerryloT Air Quality CO2(CD10)



MerryloT Motion Detection(MS10)



MerryloT Open/Close(DW10)



MerryloT Leak Detection(WL10)



MerryloT Air Quality CO2(CD10)

1 Tools: Cross-type screw driver x 1(PH0)





2 Remove the battery cover of the sensor with a cross-type screwdriver(PH0 size).



Replace the battery with new ones(Li-SiO2 battery, "ER14505", AA size x 2 pcs).
*Caution: Using batteries other than the ones provided may result in loss of performance and battery life, and also damage to the device. Dispose of properly, observing environmental protection rules. Mixing of cells can result in battery leakage and sub-optimal device performance.



3

Re-assemble the battery cover.

MerryloT Motion Detection(MS10)



Tools: Cross-type screw driver x 1(PH0)



2 Remove the battery cover of the sensor with a cross-type screwdriver(PH0 size).



3 Replace the battery with new ones(Alkaline Battery, "LR6", AA size x 2 pcs). *Caution: Using batteries other than the ones provided may result in loss of performance and battery life, and also damage to the device. Dispose of properly, observing environmental protection rules. Mixing of cells can result in battery leakage and sub-optimal device performance.



3 Re-assemble the battery cover.

MerryloT Open/Close(DW10)

1 Tools: Cross-type screw driver x 1(PH0)



2 Remove the battery cover of the sensor with a cross-type screwdriver(PH0 size).



Replace the battery with new ones(Li-SiO2 battery, "ER14250", 1/2 AA size x 2 pcs). *Caution: Using batteries other than the ones provided may result in loss of performance and battery life, and also damage to the device. Dispose of properly, observing environmental protection rules. Mixing of cells can result in battery leakage and sub-optimal device performance.



3 Re-assemble the battery cover.

MerryIoT Leak Detection(WL10)

Tools: Cross-type screw driver x 1(PH1), Star-type screw driver x 1(T8H), Plastic disassembly stick(recommended).



Remove 4 rubber stands of the sensor with disassembly stick.



8 Remove the bottom cover of the sensor with a star-type screwdriver(T8H size). *Caution: Removing the bottom cover may affect the water-tightness. Please get help from Browan team before you do so.



Remove the circuit board of the sensor with a cross-type screw driver x 1(PH1)

*Caution: Avoid touching the circuit board with bare hand. Touching boards can release static discharge. Please wear a plastic/rubber glove.



6 Replace the battery with new ones(Alkaline Battery,"LR6", AA x 2 pcs) *Caution: DO NOT remove the battery holder.

*Caution: Using batteries other than the ones provided may result in loss of performance and battery life, and also damage to the device. Dispose of properly, observing environmental protection rules. Mixing of cells can result in battery leakage and sub-optimal device performance.



Chapter 8 - FAQ

1.

Why do I get the error message "Sorry about that, please report it to us in the app help section" while binding the MerryIoT sensor through the MerryIoT sensor APP?

MerryloT Air Quality C...

Name
Test_CO2
Description
Bedroom
Location
Bedroom
Sorry about that, please report it to
Sorry about that, please report it to us in the app help section.
Next

Answer:

Since the MerryloT sensor APP is only for a specific batch number of MerryloT sensors, kindly check with your supplier whether the one you purchase is for using with the MerryloT sensor APP.

2.

How long will it take to get the CO2 value?

Answer:

It takes more than 20 minutes at least to get the CO2 value by manually activation, or 1 hour automatically.

3.

Why do I have to "sign in" via Google/Apple ID/Facebook twice?

Answer:

The first "sign in" is identified as a presign-up process in AWS Cognito which the MerryIoT Sensor uses to manage third-party social media registration. Once the presign-up is complete, the mobile app page will redirect you to the "sign in" page again, then, you can sign in to the mobile app successfully.

For more FAQs please visit https://www.merryiot.com/FAQ

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