





Milesight WS203 Motion and TH Sensor User Guide

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Milesight WS203 Motion and TH Sensor



Specifications

• Product Name: Motion & TH Sensor WS203

• Compliance: CE, FCC, RoHS

• Features: Passive Infrared and Fresnel Lens, High-accurate TH sensor, PIR sensor, Adjustable PIR covers

Product Usage Instructions

Installation

1. Ensure all items from the packing list are present and undamaged.

2. Mount the sensor in the desired location using appropriate mounting hardware.

Power Button and LED Indicator

• Function: Power On/Off

• Action: Press and hold the power button for more than 3 seconds

• Check On/Off Status: Quickly press the power button once.

• Reset to Factory Default PIR Status: Press and hold the power button for more than 10 seconds

LED Indicator:

Power On: Off / OnPower Off: On / Off

• Light On: Device is on / Light Off: Device is off

• Blink quickly: Blinks twice

NFC Configuration

Note:

- 1. Ensure the location of the NFC area of the smartphone and remove the phone case.
- 2. If the NFC configuration fails, remove the phone and try again.
- 3. Use a dedicated NFC reader provided by Milesight IoT for configuration.

FAQ

- Q: How can I reset the WS203 sensor to factory default PIR status?
 - A: Press and hold the power button for more than 10 seconds to reset to factory default PIR status.
- Q: What should I do if the NFC configuration fails?
 - **A:** Remove the phone, ensure proper positioning, and try again. If it still fails, use a dedicated NFC reader provided by Milesight IoT for configuration.

Safety Precautions

Milesight will not shoulder responsibility for any loss or damage resulting from not following the instructions of this operating guide.

- The device must not be disassembled or remodeled in any way.
- Do not expose the PIR lens to direct sunlight.
- Do not paint or clean the PIR lens, or it will affect the detection of the device.
- Ensure that you install the battery properly. Choose the right model and make it connect to the positive and negative terminals correctly.
- Do not place the device where the temperature is below/above the operating range.
- Do not place the device close to objects with naked flames, heat sources (such as an oven), or exposure to sunlight, cold sources, liquid, and extreme temperature changes.
- Remove the battery from the device if it is not to be used for an extended period. Otherwise, the battery might leak and damage the device.
- The device must never be subjected to shocks or impacts.

Declaration of Conformity

WS203 conforms with the essential requirements and other relevant provisions of the CE, FCC, and RoHS.









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For assistance, please contact

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• Support Portal: support.milesight-iot.com

Tel: 86-592-5085280Fax: 86-592-5023065

• Address: Building C09, Software Park Phase III, Xiamen 361024, China.

Revision History

Date	Doc Version	Description
Aug. 3, 2023	V 1.0	Initial version

Product Introduction

Overview

- WS203 is an environmental monitoring device that combines motion and temperature/humidity (TH) sensors.
 By detecting motion within a 6-meter range based on passive infrared (PIR) technology, the WS203 can trigger
 TH detection and periodically report environmental status over the LoRaWAN® network.
- With easy configuration and wireless detection, the WS203 offers a reliable and convenient solution for space and TH optimization. Compatible with the Milesight LoRaWAN® gateway and Milesight IoT Cloud platform, it enables real-time monitoring of occupant status for effective remote management. The WS203 can find applications in various settings including smart offices, buildings, hospitals, and more.

Key Features

- Equipped with passive infrared and Fresnel Lens for motion or occupancy detection
- Built-in high-accurate TH sensor along with PIR sensor enabling communicative triggers
- Provide different types of PIR covers for adjustable and flexible field angles and different detecting ranges.
- Store locally 1000 historical records and support retransmission to prevent data loss.
- Equipped with NFC for one-touch configuration and support card emulation mode
- Function well with standard LoRaWAN® gateways and network servers
- · Compatible with Milesight IoT Cloud
- Support Milesight D2D protocol to enable ultra-low latency and direct control without a gateway.

Hardware Introduction

Packing List





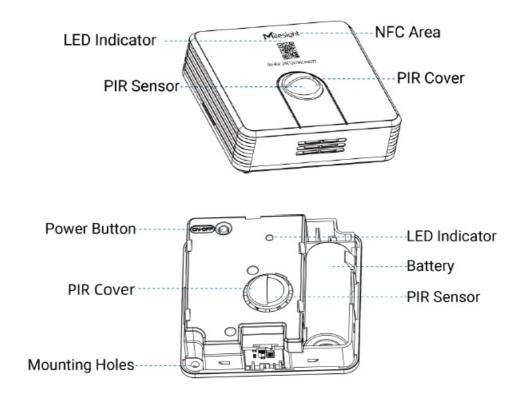






If any of the above items are missing or damaged, please contact your sales representative.

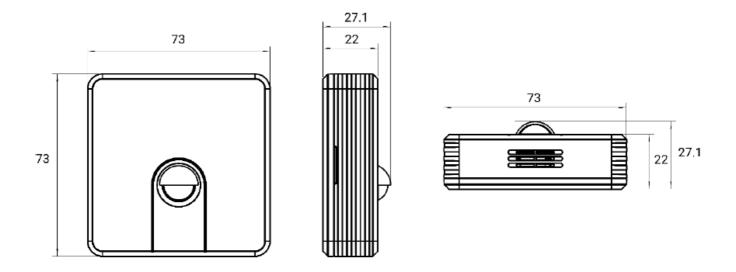
Hardware Overview



Power Button and LED Indicator

Function	Action	LED Indicator
	Press and hold the power button for more than	Power On: Off → On
Power On/Off	3 seconds	Power Off: On → Off
		Light On: Device is on
Check On/Off Status	Quickly press the power button once.	Light Off: The device is off.
Reset to Factory Default	Press and hold the power button for more than 10 seconds	Blink quickly
	Vacant → Occupied	Blinks twice
PIR Status	Occupied → Vacant	Blinks twice

Dimensions (mm)

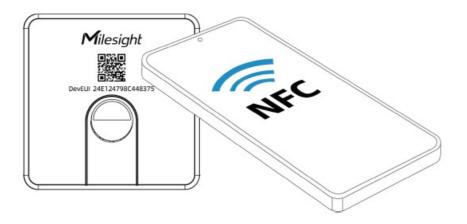


Operation Guide

NFC Configuration

WS203 sensor can be monitored and configured via NFC. Please refer to the following configuration steps.

- 1. Download and install the Milesight ToolBox App from Google Play or Apple App Store.
- 2. Enable NFC on the smartphone and launch Milesight ToolBox.
- 3. Attach the NFC area of a smartphone to the device, and click NFC Read to read device information. The basic information and settings of the device will be shown on the ToolBox App if it's recognized successfully. You can read and configure the device by tapping the Read/Write device on the App. To protect the security of the device, please change the password when first configuring. The default password is 123456.

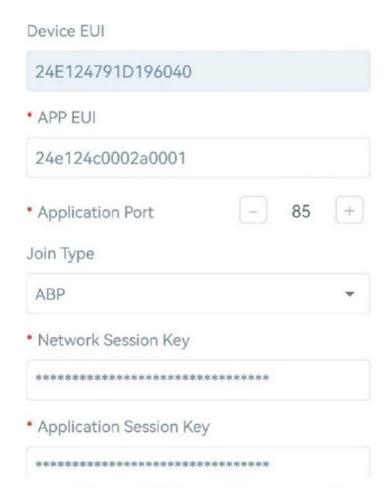


Note:

- 1. Ensure the location of the NFC area of the smartphone and it's recommended to take off the phone case.
- 2. If the smartphone fails to read/write configurations via NFC, remove the phone and try again.
- 3. WS203 sensor can also be configured by a dedicated NFC reader provided by Milesight IoT.

LoRaWAN® Settings

Go to Device > Settings > LoRaWAN® Settings of ToolBox App to configure AppEUI, Join Type, Application Key, and other information. You can also keep all settings by default.



Parameters	Description	
Device EUI	Unique ID of the device which can also be found on the label.	
App EUI	The default App EUI is 24E124C0002A0001.	
Application Port	The port is used for sending and receiving data, the default port is 85.	
Join Type	OTAA and ABP modes are available.	
Application Key	App key for OTAA mode, the default is 5572404C696E6B4C6F52613230313823.	
Network Session Key	Nwkskey for ABP mode, the default is 5572404C696E6B4C6F52613230313823.	
Application	Appskey for ABP mode, the default is	
Session Key	5572404C696E6B4C6F52613230313823.	
Device Address	DevAddr for ABP mode, the default is the 5th to 12th digits of the SN.	
LoRaWAN® Version	V1.0.2 and V1.0.3 are available.	
Work Mode	It's fixed as Class A.	
RX2 Data Rate	RX2 data rate to receive downlinks.	
RX2 Frequency	RX2 frequency to receive downlinks. Unit: Hz	

	Select Standard-Channel mode or Single-Channel mode. When Single-Channel mode is enabled, only one channel can be selected to send uplinks. Please	
Channel Mode	enable Single-Channel mode if connecting to the DS7610.	

	Enable or disable the frequency to send uplinks.			
	Examples:			
	1, 40: Enabling Channel 1 and Channel 40			
	1-40: Enabling Channel 1 to Cha	nnel 40		
	1-40, 60: Enabling Channel 1 to	Channel 40 and Channel 60 All: Enabling all channe	ls	
	Null: Indicate that all channels are disabled			
	Channel Mode			
	Standard-Cha	Standard-Channel -		
	Enable Channel Index (1)			
Channel	0-71			
Charmer	Index	Frequency/MHz (1)		
	0 - 15	902.3 - 905.3		
	16 - 31	905.5 - 908.5		
	32 - 47	908.7 - 911.7		
	48 - 63	911.9 - 914.9		
	64 - 71	903 - 914.2		
Confirmed Mode	If the device does not receive an ACK packet from the network server, it will resend data once.			
	Reporting interval ≤ 35 mins: the device will send a specific number of LinkCheckReq M AC packets to the network server every reporting interval or every double reporting interval to validate connectivity; If there is no response, the device will re-join the network.			
Rejoin Mode	Reporting interval > 35 mins: the device will send a specific number of LinkCheckReq M AC packets to the network server every reporting interval to validate connectivity; If ther e is no response, the device will re-join the network.			
Set the number of pa ckets sent.	When the rejoin mode is enabled, set the number of LinkCheckReq packets to send. Note: the actual sending number is Set the number of packet sent + 1.			

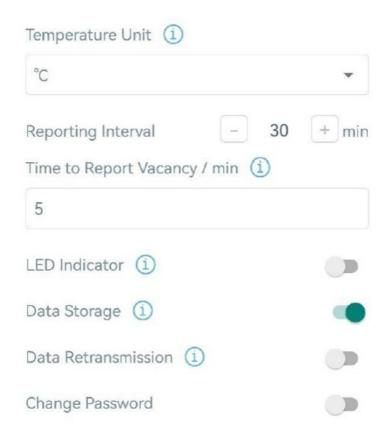
ADR Mode	Allow the network server to adjust the data rate of the device.	
Spread Factor	If ADR is disabled, the device will send data via this spread factor.	
Tx Power	Transmit power of the device.	

Note:

- 1. Please contact sales for the device EUI list if there are many units.
- 2. Please contact sales if you need random App keys before purchase.
- 3. Select OTAA mode if you use the Milesight IoT cloud to manage devices.
- 4. Only OTAA mode supports rejoin mode.

General Settings

Go to Device > Setting > General Settings of ToolBox App to set the reporting interval, etc.



Parameters	Description	
Temperature Unit	Set the unit of temperature displayed on the status page.	
Reporting Interval	The interval of reporting PIR status, temperature, humidity, and battery level to a networ k server. Default: 30 min, Range: 1 – 1440 min Note: WS203 will report the PIR "Occupied" status trigger packet immediately when it detects motions and the reporting interval will be re-calculated.	
Time to Report Vacan cy/min	A "Vacant" status trigger packet will be reported if the device does not detect motion wit hin a certain period and the reporting interval will be re-calculated. Default: 5 min, Rang e: 1 – 60 min	

LED Indicator	Enable or disable the LED to indicate PIR status.	
Data Storage	Disable or enable data storage locally.	
Data Retransmission	Disable or enable data retransmission.	
Change Password	Change the password for the ToolBox App to write this device.	

Advanced Settings

Calibration Settings

WS203 supports numerical calibration of the temperature and humidity values. Go to Device > Settings > Calibration Settings of ToolBox App to set the calibration value, the device will add calibration value to the current value and upload the final value.



Threshold Settings

Go to Device > Settings > Threshold Settings of ToolBox App to enable the threshold settings and input the temperature threshold. If the temperature threshold is triggered, the device will upload the alarm packet once instantly and collect the temperature & humidity data at the collected intervals until the alarm is released.



Data Storage

WS203 supports storing 1000 data records locally and exports data via the ToolBox App. The device will record the data according to the reporting interval even not joining the network.

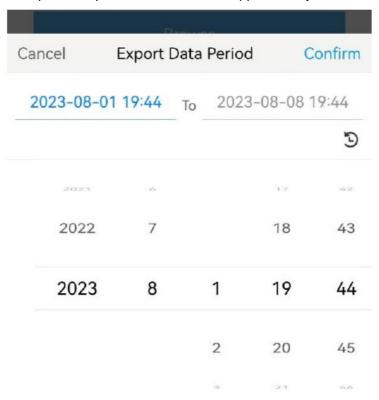
1. Go to Device > Status of ToolBox App to sync the device time.



2. Go to Device > Setting > General Settings to enable the data storage feature.



3. Go to Device > Maintenance of ToolBox App, click Export, then select the data time range and click Confirm to export data. The maximum export data period on the ToolBox App is 14 days.



4. Click Export Record to find the export file records.



Note: Slide the file record to the left to delete the record.

5. Click Data Cleaning to clear all stored data inside the device if necessary.



Data Retransmission

WS203 supports data retransmission to ensure the network server can get all data even if the network is down for some time. There are two ways to get the lost data:

- The network server sends downlink commands to enquire about the historical data for specifying the time range.
- When the network is down and no response from LinkCheckReq MAC packets for a period of time, the device
 will record the time of disconnection from the network and retransmit the lost data after the device is
 reconnected to the network.

Here are the steps of data retransmission:

1. Go to Device > Setting > General Settings to enable the data storage feature and data retransmission feature.



2. Go to Device > Setting > LoRaWAN Settings to enable the rejoin mode feature and set the number of packets sent. Take below as an example, the device will send LinkCheckReq MAC packets to the network server regularly to check if the network is disconnected; if there is no response 8+1 times, the join status will change to de-active and the device will record a data loss time point (the time to join the network).



3. After the network is connected back, the device will send the lost data from the point in time when the data was lost according to the data re-transmission reporting interval.

Note:

- 1. If the device is rebooted or re-powered when data retransmission is not completed, the device will re-send interrupted retransmission data again after the device is reconnected back to the network.
- 2. If the network is disconnected again during data retransmission, the device will only send the latest disconnection data.
- 3. The retransmission data format is started with "20ce", please refer to section 5.4.
- 4. Data retransmission will increase the uplinks and shorten the battery life.

Milesight D2D Settings

Milesight D2D protocol is developed by Milesight and used for setting up transmission among Milesight devices without a gateway. When the Milesight D2D setting is enabled, WS203 can work as a Milesight D2D controller to send control commands to trigger Milesight D2D agent devices.

- 1. Configure RX2 data rate and RX2 frequency in LoRaWAN® settings, it is suggested to change the default value if there are many LoRaWAN® devices around.
- 2. Go to Device > Settings > D2D Settings to enable the D2D function and configure the D2D settings.

2021	
D2D Key	

Occupied&Temperature threshold triggered	
Control command	
0	
LoRa Uplink (1)	
Control Time /min (1)	
5	

Parameters	Description	
Enable	Enable or disable the Milesight D2D feature.	
	Define a unique D2D key which is the same as the setting in D2D agent	
D2D Key	devices. Default value: 5572404C696E6B4C6F52613230313823	
Status Condition	When WS203 detects one or more of the below statuses, it will send the control comma nd to the corresponding Milesight D2D agent devices:	
	Occupied & Temperature threshold triggered	
	Occupied (PIR)	
	Vacant (PIR)	
	Temperature threshold triggered	
	The temperature threshold is lifted	
	Note: for temperature threshold conditions, please enable and configure the temperatur e threshold feature under Threshold Settings.	

Control command	Define a 2-byte hexadecimal control command (0x0000 to 0xffff).	
LoRa Uplink	If enabled, a LoRaWAN® uplink packet that contains the PIR status or temperature alar m will be sent to the gateway after the Milesight D2D control the command is sent.	
Control Time/min1	After receiving commands from WS203, Milesight D2D agent devices will take corresponding actions for this duration. Default: 5 mins, Range: 1 – 1440 mins	

Maintenance

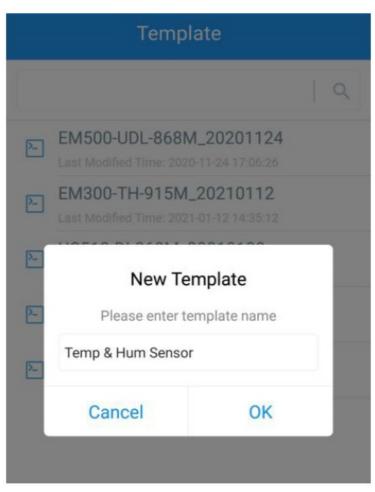
Backup

WS203 supports backup templates for easy and quick configuring devices in bulk. The backup feature is only for devices with the same model and LoRaWAN® frequency band.

1. Go to the Template page on the App and save the current settings as a template. The saved templates are also editable.

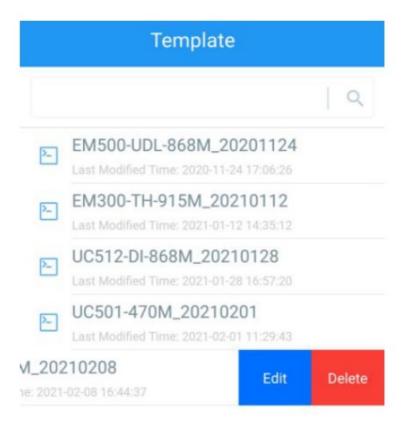


2. Select one saved template and click Write, then attach the smartphone to another device via NFC to reuse the template.



Note: Slide the template item to the left to edit or delete the template. Click the template to edit the configurations.

1. This feature is under development on Milesight D2D agent devices.

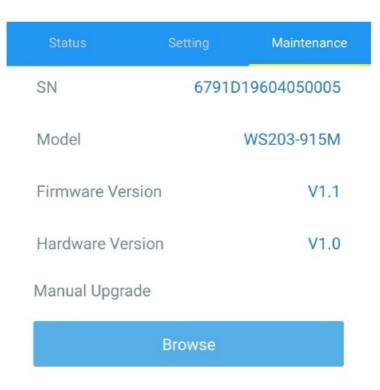


Upgrade

- 1. Download firmware from the Milesight website to your smartphone.
- 2. Go to Device > Maintenance of ToolBox App, tap Browse to import firmware, and upgrade the device.

Note:

- 1. Operation on ToolBox is not supported during the upgrade.
- 2. Only the Android version of ToolBox supports the upgrade feature.



Reset to Factory Default

WS203 supports two methods to reset the device which are as follows:

- Via Hardware: Press and hold the power button for more than 10 until the LED indicator blinks quickly.
- Via ToolBox App: Go to Device > Maintenance to tap Reset, then attach the smartphone to the device via NFC to complete the reset.

Status	Setting	Maintenance	
SN	6791	D19604050005	
Model		WS203-915M	
Firmware Versi	on	V1.1	
Hardware Vers	ion	V1.0	
Manual Upgrade			
Browse			
Restore Factory Default			
Reset			

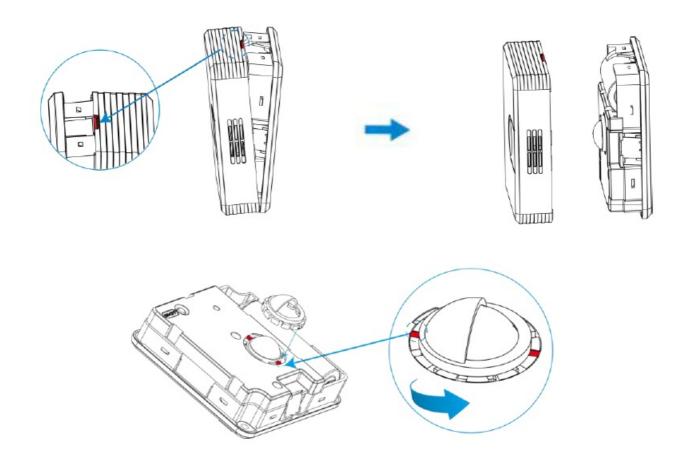
Installation

Installation Note:

- 1. Adjust the installation direction according to the detection area requirement.
- 2. Ensure the detection area does not have moving objects like waving trees and fans.
- 3. Ensure the detection area is not blocked by curtains or barriers.
- 4. Do not expose the device to direct infrared (including sunlight, light, etc.), or the PIR detection will be affected.
- 5. The recommended installation location is 2 m in height on the wall with the half PIR cover to avoid room light inference.
- 6. Avoid the device facing a transparent plate (like glass) within 5m since the PIR will detect through it.

PIR Cover Installation:

Take off the front cover of the device, then select the PIR cover as required and put it on the PIR sensor with groove alignment. The adjustable angle of every groove is 30°.



PIR cover reference guidance(wall mount and installation height=2m):

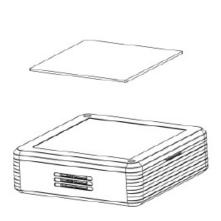
PIR Cover	Detection Area
	Maximum: 120 ° Horizontal, 50 ° Vertical, 6 m Recommend: 98 ° Horizontal, 44.4° Vertical, 5 m
	Maximum: 38 ° Horizontal, 50 ° Vertical, 6 m Recommend: 38 ° Horizontal, 44.4° Vertical, 5 m
	Maximum: 38 ° Horizontal, 100 ° Vertical, 6 m Recommend: 38 ° Horizontal, 88.8° Vertical, 5 m
(0)	Maximum: 120 ° Horizontal, 100 ° Vertical, 6 m Recommend: 98 ° Horizontal, 88.8° Vertical, 5 m
	Support to be tailored as required

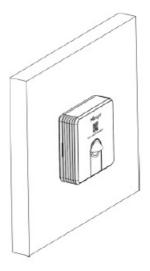
Fixed by 3M Tape:

Attach 3M tape to the back of the sensor, then tear the other side and place it on a flat surface. Please adjust the installation direction according to the detection area.

Note:

- 1. Since the default 3M tape has a high viscosity, please tear the device down via a screwdriver.
- 2. If it is necessary to tear the device down easily, please divide the 3M tape into several parts and only tear one part to the device.



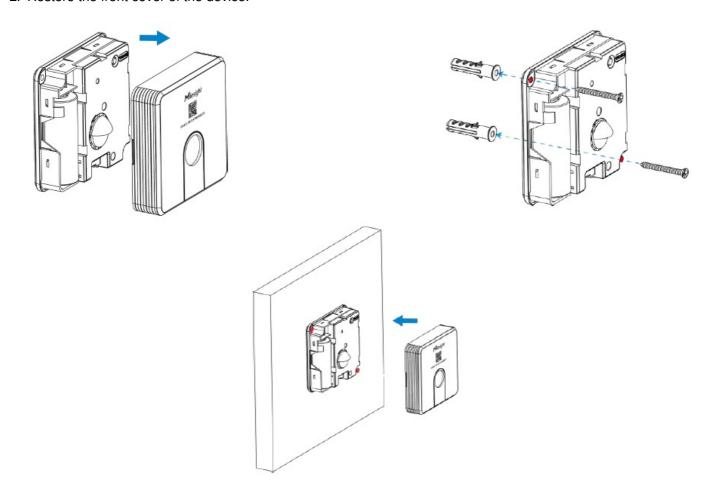


Fixed by Mounting Kits:

1. Take off the front cover of the device, then fix the wall plugs to a flat surface according to the device mounting

holes. Finally, secure the device to the wall plugs using screws. Please adjust the installation direction according to the detection area.

2. Restore the front cover of the device.



Device Payload

All the data is based on the following format (HEX), the Data field should follow the little-endian:

Channel1	Type1	Data1	Channel2	Type2	Data2	Channel 3	
1 Byte	1 Byte	N Bytes	1 Byte	1 Byte	M Bytes	1 Byte	

For decoder examples please find the files on https://github.com/Milesight-IoT/SensorDecoders.

Basic Information

WS203 sensor reports basic information whenever joining the network.

Channel	Туре	Description
	0b (Power On)	Device is on
	01(Protocol Version)	01=>V1
	16 (Device SN)	16 digits
ff	09 (Hardware Version)	01 40 => V1.4
	0a (Software Version)	01 14 => V1.14

0f (Device Type)	00: Class A, 01: Class B, 02: Class C
------------------	---------------------------------------

Example:

ff0bff ff0101	ff0bff ff0101 ff166791d19604050005 ff090100 ff0a0101 ff0f00					
Channel	Туре	Value	Channel	Туре	Value	
ff	0b (Power On)	ff (Reserved)	ff	01 (Protocol Version)	01 (V1)	
Channel	Туре	Value	Channel	Туре	Value	
ff	16 (Device SN)	6791d19604050 005	ff	09 (Hardware Version)	0100 (V1.0)	
Channel	Туре	Value	Channel	Туре	Value	
ff	0a (Software Version)	0101 (V1.1)	ff	Of (Device Type)	00 (Class A)	

Sensor Data

Item	Channel	Туре	Description
Battery Level	01	75	UINT8, Unit: %
Temperature	03	67	INT16, Unit: °C, Resolution: 0.1 °C
Humidity	04	68	UINT8, Unit: %, Resolution: 0.5 %RH
PIR Status	05	00	00: Vacant; 01: Occupied
			Temperature (2 Bytes) + Alarm Status(1
			Byte)
Temperature			Temperature: unit — °C
Alarm	83	67	Alarm Status:
			00 -Alarm release
			01 -Alarm

Examples:

1. **Periodic packet:** report as reporting interval (30 minutes by default).

017562 0367d500 04687f 050001						
Channel	Туре	Value	Channel	Туре	Value	
					d5 00=>00 d5=213	
	75			67	Temp=213*0.1	
01	(Battery Level)	62=>98%	03	(Temperature)	=21.3°C	
Channel	Туре	Value	Channel	Туре	Value	
04	68 (Humidity)	7f=>127 Hum=127*	05	00 (PIR Status)	01=>Occupied	
		0.5=63.5%			<u>'</u>	

2. **PIR trigger packet:** report when PIR status changes.

0367d500 0	0367d500 04687f 050001						
Channel	Туре	Value	Channel	Туре	Value		
03	67 (Temperature)	d5 00=>00 d5=213 Temp=213*0.1= 21.3°C	04	68 (Humidity)	7f=>127 Hum=127*0.5= 63. 5%		
Channel	Туре	Value					
05	00 (PIR Status)	01=>Occupied					

3. Temperature alarm packet: report when the temperature reaches the threshold or returns to normal value.

83670e0101	83670e0101 04687a							
Channel	Туре	Value	Channel	Туре	Value			
83	67 (Temperature)	Temperature: 0e 01 = >01 0e = 270 * 0.1 = 27 °C 01= Alarm	04	68 (Humidity)	7a=>122 Hum=122 *0.5= 61%			

Downlink Commands

WS203 supports downlink commands to configure the device. The application port is 85 by default.

Channel	Туре	Description
	10 (Reboot)	ff
	2f (LED Indicator)	00: disable; 01: enable
		3 Bytes,
		Byte 1: 00
	8e (Reporting Interval)	Byte 2-3: interval time, unit: min
	95 (Time to report vacancy)	2 Bytes, unit: s
	68 (Data Storage)	00: disable, 01: enable
	69 (Data Retransmission)	00: disable, 01: enable
ff		3 Bytes
		Byte 1: 00
	6a (Data Retransmission Interval)	Byte 2-3: interval time, unit: s

		range: 30~1200s (600s by default)
	84 (D2D Feature)	1 Byte, 00: disable; 01: enable
		8 Bytes,
		Byte 1:
		00- All threshold conditions;
		01- Occupancy&Temperature threshold triggered;
		02- Occupied; 03-Vacant;
	96 (D2D Settings)	04-Temperature threshold triggered; 05-Temperature threshold is lifted Byte 2: 00-disable, 01-enable
		Byte 3: 00-disable LoRa Uplink, 01-enable LoRa Uplink
		Byte 4-5: D2D control command Byte 6-7: control tim e, unit: min
		Byte 8: 00-disable control time, 01-enable control time
		9 Bytes, CTRL(1B)+Min(2B)+Max(2B)+
		0000000(4B) CTRL:
		Bit0~Bit2:
	OS (Throshold Alarm)	00- disable
	06 (Threshold Alarm)	01- below (minimum threshold) 010-above (maxi mum threshold) 011-within
		100-below or above
		Bit3~Bit7: 11001

Example:

1. Reboot the device.

ff10ff				
Channel	Туре	Value		
ff	10 (Reboot)	ff (Reserved)		

2. Set the reporting interval as 2 minutes.

ff8e 00 0200		
Channel Type Value		Value
ff	8e (Reporting Interval)	02 00=>00 02=>2 mins

3. Set the time to report vacancy as 2 minutes.

ff957800		
Channel Type Value		Value
ff	95 (Time to report vacancy)	78 00=>00 78=>120 s=2 mins

4. Set LED indicator.

ff2f01		
Channel Type Value		Value
ff	2f (LED Indicator)	01=>Enable

5. Enable the D2D feature.

ff8401		
Channel Type Value		Value
ff	84 (D2D Feature)	01=Enable

6. Set D2D settings.

ff96 01 01 01 04e0 0500 01			
Channel	Туре	Value	
		01=>Occupied&Temperature threshold triggered;	
		01=>Enable; 01=>Enable LoRa Uplink;	
		04 e0=>e0 04, Control Command is e0 04;	
ff	96 (D2D Settings)	05 00=>00 05, Control time is 5 mins; 01=>Enable Contro I Time	

7. Set threshold alarm.

ff06 cc 9600 2c01 00000000		
Channel	Type Value	
		Ctrl: cc=>11001100 100=below or above Min_value: 96 00=>00 96=15°
ff	06 (Threshold Alarm)	C Max_value: 2c 01=>01 2c=30°C

WS203 supports sending downlink commands to enquire about historical data for specified time points or time ranges. Before that, ensure the device time is correct and the data storage feature is enabled to store the data.

Command format:

Channel	Туре	Description
fd	6b (Enquire data in time point)	4 Bytes, Unix timestamp
		Start time (4 bytes) + End time (4 bytes),
fd	6c (Enquire data in time range)	Unix timestamp
fd	6d (Stop query data report)	ff
		3 Bytes,
		Byte 1: 01
ff	6a (Report Interval)	Byte 2: interval time, unit: s, range: 30~1200s (60s by d efault)

Reply format:

Channel	Туре	Description
FC	6b/6c	1 Byte, 00: data inquiry success 01: time point or time range invalid 02: no data in this time o r time range
20	ce (Historical Data)	9 Bytes, Data time stamp (4 Bytes) + Trigger Status (1 Byte) + PIR S tatus (1 Byte) + Temperature (2 Bytes) + Humidity (1 Byte) Trigger_status: 00 - temperature threshold alarm is released 01 - temperature threshold alarm triggered 02 - PIR vacant trigger 03 - PIR occupied trigger 04 - periodic report

Note:

- 1. The device only uploads no more than 300 data records per range inquiry.
- 2. When inquiring about the data in time point, it will upload the data that is the closest to the search point within the reporting interval range. For example, if the device's reporting interval is 10 minutes and users send a

command to search for 17:00's data if the device finds there is data stored in 17:00, it will upload these data. If not, it will search for data between 16:50 to 17:10 and upload the data which is the closest to 17:00.

Example:

1. Enquire historical data between 2023/8/4 17:00:00 to 2023/8/4 17:15:00.

fd6c10becc6494c1cc64		
Channel	hannel Type Value	
		Start time: 10becc64=> 64ccbe10 = 1691139600s = 2023-08 -04 17:00:00
fd	6c (Enquire data in time range)	End time: 94c1cc64 => 64ccc194 = 1691140500s = 2023-08-04 17:15:00

Reply:

fc6c00		
Channel Type Value		
FC	6c (Enquire data in time range)	00: data inquiry success

20ce 7ac1cc64 04 01 0e01 7b			
Channel	Туре	Time Stamp	Value
20	ce (Historical Data)	7ac1cc64 => 64ccc17a => 169114 0474s = 2023-08-04 17:14:34	04=>Periodic report PIR: 01=>Occupied; Temperature: 0e01=>010e = 27°C Humidity: 7b => 123 = 61.5%

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Documents / Resources



Milesight WS203 Motion and TH Sensor [pdf] User Guide

WS203 Motion and TH Sensor, WS203, Motion and TH Sensor, and TH Sensor, TH Sensor, Sensor

References

- Support : IoT Support
- GitHub Milesight-IoT/SensorDecoders
- User Manual

Manuals+, Privacy Policy

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