aërQ Temperature & Humidity Sensor 8

(ZWA057)

REVISION RECORD		
Version	Date	Brief description of changes
0.1	2024.12.26	First revision.
0.2	2025.09.26	update
0.3	2025.12.16	Update Relative Humidity
0.4	2025.12.19	Update Mold Detection Trigger Conditions

Table of Content

1 Overview 1

2 Specifications 2

2.1 Structural Characteristics 2

2.2 Hardware Characteristics 2

2.3 Software Characteristics 2

3 Quick Start 4

3.1 Important safety information 4

3.2 How to install the product 4

3.3 How to add the product 4

3.3.1 Classic inclusion 4

3.3.2 SmartStart 4

3.4 How to remove the product 4

3.5 About SmartStart 5

3.6 About Product 5

3.7 How to factory reset 5

3.8 Long Range 5

3.9 About Z-Wave Role Type 5

4 Software Function Definition 6

4.1 User Behavior Interaction 6

4.2 Supported Command Classes 7

4.3 Basic Command Class mapping 8

4.4 Z-Wave Plus Info 8

4.5 Manufacturer Specific 8

4.6 Version 8

4.7 Association Group Info 9

4.8 Notification 9

4.9 Wake Up 10

4.10 Binary Sensor 10

4.11 Multilevel Sensor 10

4.12 Battery 10

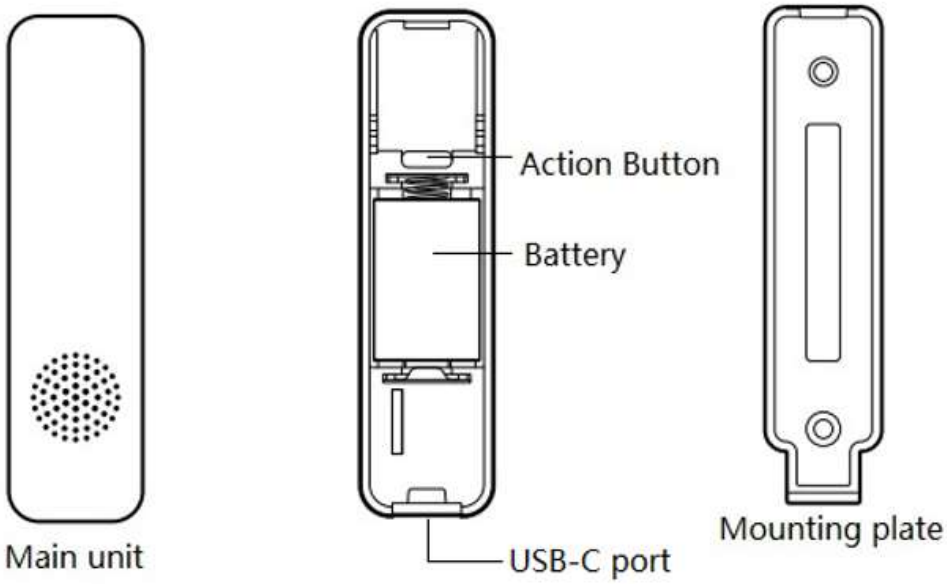
4.13 Indicator 10

4.14 Configuration 10

1 Overview

The Temperature Humidity Sensor measures the three air quality parameters temperature, humidity and dew point and reports them to a central controller. Besides this, the device can directly control groups of other Z-Wave® devices on over- and undershooting a set temperature and/or humidity parameter. This can be used to establish control loops for temperature and humidity.

This product supports Security 2 Command Class. While a Security S2 enabled Controller is needed in order to fully use the security feature. This product can be operated in any Z-Wave network with other Z-Wave/ Z-Wave Plus® certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. This product also supports SmartStart.



Terminology	Description
Action Button	Used for networking, resetting and protect the device.
Led (red and green)	Used for indicating the current state of the product.
Battery	Power supply
USB	Power supply
tamper switch	Trigger tampering report

2 Specifications

2.1 Structural Characteristics

Parameter	Value
Product Identifier	ZWA057
Dimensions	70x18x19mm
Color	White
Usage	For indoor use.
Operating Temperature	32~104°F (0~40°C)
Relative Humidity	8%~80%

2.2 Hardware Characteristics

Parameter	Value
Z-Wave Module	EFR32ZG23
Z-Wave TX Power	Max:14dBm
Z-Wave Classic Antenna Distance	40m(Indoor)/150m(outdoor)
Buttons	Action Button x 1
Indicator Light	red, green
Temperature Sensor	-20 to 85°C (+- 1°C)
Relative Humidity Sensor	0 to 100% RH +- 3%
Dew Point Temperature	-20 to 85°C (+- 1°C) Td = T – (100-RH) / 5 (Td=Dew Point, T=Temperature, RH=Relative Humidity)
Mold Detection	When humidity greater than or equal to 60% + configuration 13, it will trigger mold danger.
Power Type	USB or 1*CR14250

USB Power Supply:

Parameter	Value
Work Current	12mA
Standby Current	2mA

Battery Supply:

Parameter	Value
Work Current	12mA
Standby Current	10uA

2.3 Software Characteristics

Parameter	Value
Wireless Technology	Z-Wave
Z-Wave Plus	Z-Wave Plus V2
Z-Wave Version	7.23.2
Z-Wave Library Type	Enhanced 232 Slave
Z-Wave Role Type	Always On Slave (USB Power Supply), Reporting Sleeping Slave (Battery Supply).
Generic Device Type	GENERIC_TYPE_SENSOR_NOTIFICATION(0x07)
Specific Device Type	SPECIFIC_TYPE_NOTIFICATION_SENSOR(0x01)
Security Class	Non-Security, S2 Unauthenticated, and S2 Authenticated
SmartStart Compatible	Support. After powering on, SmartStart is auto activated.

Over The Air (OTA)	Support. Firmware can be updated via RF.
Multi Channel Device	No
Association	Support. Refer to Section 4.7 Association Group Info.
Factory Reset	Support. Refer to Section 3.7 How to factory reset.
Power-down Memory	Support. All command settings will stay unchanged even power down.
Low Battery warning	Support.
Control other product	Support. Control other Z-Wave product directly via Association Group when heat alarm and weather alarm is triggered.

3 Quick Start

3.1 Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law. The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material. Use this equipment only for its intended purpose. Follow the disposal instructions. Do not dispose of electronic equipment in a fire or near open heat sources.

3.2 How to install the product

3.3 How to add the product

The following will step you through adding the product to your Z-Wave network.

3.3.1 Classic inclusion

1. Power the product.

2. Place your gateway or controller into Z-Wave pair or inclusion mode. (Please refer to your controller/gateway manual on how to do this).

3. Click button 2x times within 1 second. Green LED fast blink which indicates entering inclusion mode, and Node Info will be issued for adding.

4. If your controller supports S2 security, and you want to add the product into S2 Authenticated network, please scan the QR code or enter the PIN code (the underlined 5-digits of the DSK) when prompted. ***[IMPORTANT] QR/PIN code can be found on the product. A full DSK string can be found on the packaging.***

5. Wait for the adding process to end.

6. Confirm the adding result. Successful adding will be confirmed by the Z-Wave controller's message or LED status. If adding is successful, Green LED will light stays on 2 seconds and then off. If its LED breathing 3 times and then off, it indicates adding is unsuccessful. The product will auto-reset and then activate SmartStart. Repeat the above steps or contact us for further support if needed.

Note:

The classic manually inclusion will exit if click button once during the adding process. Its LED will flash 3 times and then off. The product will auto-reset and activate SmartStart.

3.3.2 SmartStart

1. Scan the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the product will be added automatically within 10 minutes after this product being powered on in the network vicinity.

2. Green LED will fast blink after your controller beginning to respond to its SmartStart inclusion request.

3. Confirm the adding result. Successful adding will be confirmed by the Z-Wave controller's message or LED status. If adding is successful, Green LED will stay on 2 seconds and then off. If its LED breathing 3 times and then off, it indicates adding is unsuccessful. The product will auto-reset and then activate SmartStart. Repeat the above steps or contact us for further support if needed.

3.4 How to remove the product

1. Make sure the product is powered.

2. Place your gateway or controller into Z-Wave pair or exclusion mode. (Please refer to your controller/gateway manual on how to do this).

3. Click button 2x times within 1 second. Green LED fast blink, which indicates entering exclusion mode.

4. Wait for the removing process to end.

5. Confirm the removing result. Successful removing will be confirmed by the Z-Wave controller's message or LED status. If removing is successful, Green LED will flash 3 times and then off. If its Green LED light stays on 2 seconds and then off, it indicates removing is unsuccessful.

3.5 About SmartStart

SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity. You can find the QR code on the back of the product, like this:

PIN: 05065

The DSK information will be like this: **05065**-41336-16018-47313-50335-02212-29424-38760

3.6 About Product

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. The device is protected by a tamper switch.

3.7 How to factory reset

Reset procedure allows to restore the product back to its factory settings, which means all information about the Z-Wave controller and user configuration will be deleted.

1. Make sure the product is powered.

2. Press and hold the button for at least 12s, and then Factory Reset is performed. The product will issue a Device Reset Locally Command via its Lifeline to notify the Lifeline destination that the product has been reset to its factory default state. And it will perform the reset operation regardless of whether or not the delivery of the Device Reset Locally Notification is successful.

Note:

If you press and hold the button, 5 to 12 seconds, the Green LED will fast flash, and then Green LED light 2 seconds until the factory settings are restored.

Resetting the product is not the recommended way of removing the product from the Z-Wave network. Use reset procedure only if the primary controller is missing or inoperable. Certain product removal can be achieved by the procedure of removing described in “How to remove the product”.

3.8 Long Range

ZWA057 A (US_LR) can be included using Z-Wave Long Range.
ZWA057 C (EU_LR) can be included using Z-Wave Long Range.

3.9 About Z-Wave Role Type

1. When include to the network using USB power, the role type of the product is Always On. Changing to battery power will keep the role type in its network, which is also a Always On Slave.
2. When powered by battery and include to the network, the role type of the product is Reporting Sleeping. Changing to USB power supply will keep the role type in its network, which is also Reporting Sleeping Slave.

4 Software Function Definition

4.1 User Behavior Interaction

The following brightness levels are all 100% unless otherwise specified.

User behavior / status	Out of the Z-Wave network	In the Z-Wave network
Power OFF	N/A	N/A
Power ON	1, The red and green led will on for 1 second, indicating self inspection. 2, The green led breathing 3 times and then turn off, indication out the Z-Wave network. 3, Send Inclusion Requests for SmartStart Learn Mode.	1, The red and green led will on for 1 second, indicating self inspection 2, LED will light up green for 2 seconds and turn off, indicating in the Z-Wave network. 3, Send Wake Up Notification. 4, Send all sensor data LED will become flash green once, and device will wake up for 15 seconds.
Click Z-Wave button once	**1, Exit Classic Inclusion Learn Mode:** If during the Classic Inclusion Learn Mode, the Classic Learn Mode will exit. LED will turn off. **2, Indicate network status** The green led breathing 3 times and then turn off.	1, **Exit Classic Inclusion Learn Mode:** If during the Classic Inclusion Learn Mode, the Classic Learn Mode will exit. LED will turn off. **2, Send Wake Up Notification** green led will on for 1 second, and device will wake up for 15 seconds (if received wakeup no more information, will go to sleep immediately).
Click Z-Wave button twice	**1. Send Node Info for Adding.** LED will blink green for 30s until it is added into the network. If Adding succeeds, LED will light up green for 2 seconds If Adding fails, LED will turn off. Device will auto-reset and then activate SmartStart Learn Mode again. **2.Exit Classic Inclusion Learn Mode:** If Z-Wave button is clicked again during the Classic Inclusion Learn Mode, the Classic Learn Mode will exit. LED will turn off. Device will auto-reset and then activate SmartStart Learn Mode again.	**1. Send Node Info for Removing.** LED will blink green for 30 seconds until it is removed from the network. If Removing succeeds, LED will light up green for 2 seconds and become breathing light 3 times. If Removing fails, LED will light up green for 1 seconds and turn off **2.Exit Classic exclusion Learn Mode:** If Z-Wave button is clicked again during the Classic exclusion Learn Mode, the Classic Learn Mode will exit. LED will turn off.
Press and hold Z-Wave button for (0, 1s]	LED: OFF	LED: OFF
hold Z-Wave button for (1, 3s]	Green light on 10%	Green light on 10%
hold Z-Wave button for (3, 5s]	Green light on 100%	Green light on 100%, Release and enter sensor reporting mode, Send battery report, multilevel sensor report(Temperature/Humidity/ Dew Point Temperature)
Press and hold Z-Wave button for	Green Led will accelerate Flash.	Green Led will accelerate Flash.

(5, 12s]		
Press and hold Z-Wave button for >12s	**Factory Reset And Restart** Green Led will become constantly light for 1 second, and become breathing light indicates the reset is success.	**Factory Reset AND Restart.** Green Led will become constantly light for 1 second, and become breathing light. The device will issue a Device Reset Locally Command via its Lifeline to notify the Lifeline destination that the device has been reset to its factory default state. And it will perform the reset operation regardless of whether or not the delivery of the Device Reset Locally Notification is successful.
wakeup notification of Periodic	N/A	LED will light up green for 1 seconds and turn off
Multilevel report of Periodic	N/A	LED will light up green for 1 seconds and turn off
Mold danger alarm or idle	N/A	LED will light up red for 1 seconds and turn off
Plug in or unplug the USB	The red led will light up green for 1 seconds and the green led breathing 3 times and then turn off.	LED will light up red for 1 seconds and turn off
Tamper triggered or released	The red led will light up green for 1 seconds and the green led breathing 3 times and then turn off.	LED will light up red for 1 seconds and turn off

4.2 Supported Command Classes

In order to increase interoperability with legacy controlling nodes, this device can reply to Manufacturer Specific Get Commands received non-securely if it was granted the S0 network key as its highest Security Class.

Command Class	Version	S2 Securely added	
		Non-secure CC List	Secure CC List
ZWAVEPLUS_INFO	2	Support	Support
ASSOCIATION	2		Support
MULTI_CHANNEL_ASSOCIATION	3		Support
ASSOCIATION_GROUP_INFO	3		Support
TRANSPORT_SERVICE	2	Support	Support
VERSION	3		Support
MANUFACTURER_SPECIFIC	2		Support
DEVICE_RESET_LOCALLY	1		Support
INDICATOR	3		Support
POWERLEVEL	1		Support
BATTERY	1		Support
SENSOR_BINARY	2		Support
CONFIGURATION	4		Support

SECURITY	1	Support	Support
SECURITY_2	1	Support	Support
NOTIFICATION	8		Support
WAKE_UP	2		Support
SUPERVISION	1	Support	Support
FIRMWARE_UPDATE_MD	5		Support
MULTILEVEL SENSER	11		Support

4.3 Basic Command Class mapping

Basic Command Class is not mapped to any of the supported command classes.

4.4 Z-Wave Plus Info

Parameter	Value
Z-Wave Plus Version	2
Z-Wave Plus Version	USB Supply: 5 (ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_END_NODE_ALWAYS_ON) Battery Supply: 6 (ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_SLEEPING_REPORTING)
Node Type	0 (ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0C10 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_WEATHER_ALARM)
User Icon Type	0x0C10 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_WEATHER_ALARM)

Mark:
1. When include to the network using USB power, the role type of the product is Always On. Changing to battery power will keep the role type in its network, which is also a Always On Slave.
2. When powered by battery and include to the network, the role type of the product is Reporting Sleeping. Changing to USB power supply will keep the role type in its network, which is also Reporting Sleeping Slave.

4.5 Manufacturer Specific

Parameter	Value
Manufacturer ID 1	0x03
Manufacturer ID 2	0x71
Product Type ID 1	0x00(EU), 0x01(US), 0x02(AU)
Product Type ID 2	0x02(PRODUCT_TYPE_ID_SENSOR)
Product ID 1	0x00
Product ID 2	0x39 (57)

4.6 Version

Parameter	Value
Z-Wave Protocol Library Type	0x03
Z-Wave Protocol Version	0x07
Z-Wave Protocol Sub Version	0x16
Firmware 0 Version	0x01
Firmware 0 Sub Version	0x00
Hardware Version	0x39 (57)
Number of firmware targets	0x00

4.7 Association Group Info

ID	Name	Node count	Profile	Function
1	Lifeline	5	General: Lifeline (0x0001)	**Device Reset Locally Notification:** Issued when Factory Reset is performed. **Battery Report** Issued when the battery power changes by more than 10%. **Sensor Binary Report** Issued when Mold danger alarm. **Multilevel Sensor Report** Issued when timed report, threshold report, limit report. **Notification Report** Issued when Tamper Alarm, Heat alarm, Weather Alarm, Power Management Alarm.
2	Temperature High Trigger	5	Notification: Heat alarm(0x7104)	**Basic Set** Issued when the temperature detected is higher than set value by Configuration parameter 14.
3	Temperature Low Trigger	5	Notification: Heat alarm(0x7104)	**Basic Set** Issued when the temperature detected is lower than set value by Configuration parameter 15.
4	Humidity High Trigger	5	Notification: Weather alarm (0x7110)	**Basic Set** Issued when the humidity detected is higher than set value by Configuration parameter 16.
5	Humidity Low Trigger	5	Notification: Weather alarm (0x7110)	**Basic Set** Issued when the humidity detected is lower than set value by Configuration parameter 17.
6	Air Temperature	5	Notification: Heat alarm(0x7104)	**Multilevel Sensor Report** Issued when timed report, threshold report, limit report.
7	Mold danger	5	Notification: Weather alarm(0x7110)	**Notification Report:** Sends alarm messages when Mold danger. (When humidity greater than or equal to 60% + configuration 13, it will trigger mold danger.)
8	Tamper	5	Notification: Home security (0x7107)	**Notification Report:** Sends alarm messages when tamper is tripped.

4.8 Notification

Notification Type		Notification Events		Description
Heat Alarm	0x04	State Idle	0x00	Issued when overheat or under heat alarm removed.
		Overheat detected	0x02	Issued when detect temperature is higher than set value by Configuration parameter 14.
		Under heat detected	0x06	Issued when detect temperature is lower than set value by Configuration parameter 15.
Weather Alarm	0x10	State Idle	0x00	Issued when Moisture Alarm removed.
		Moisture Alarm	0x02	When humidity greater than or equal to 60% + configuration 13, it will trigger mold danger.
Power Management	0x08	State Idle	0x00	Issued when replace new battery that battery power more than 90%.
		Power has been applied	0x01	Power has been applied
		AC mains disconnected	0x02	Supply by battery
		AC mains re-connected	0x03	Supply by USB
		Replace battery now	0x0B	Issued when the battery power lower than 20%.
Home Security	0x07	Tamper Removed	0x03	Tamper removed
		State idle	0x00	Going to idle

4.9 Wake Up

Parameter	Value	Time
Min Wake Up Interval Seconds	0x000E10	3600 seconds
Max Wake Up Interval Seconds	0xEFF100	182 days
Default Wake Up Interval Seconds	0x093A80	7 days
Wake Up Interval Step Seconds	0x0000F0	240 seconds

4.10 Binary Sensor

Sensor Type		Sensor Value	Description
GENERAL	0x01	0xFF	Mold danger
		0x00	Mold Idle

4.11 Multilevel Sensor

Sensor Type		Support Scale	Measure Range
Temperature	0x01	Celsius (C)	-20 to 85°C (+- 1°C)
		Fahrenheit (F)	-4 to 185°F (+- 1.8°F)
Relative Humidity	0x05	Percentage value (%)	0 to 100% RH +- 3%
Dew Point Temperature	0x0B	Celsius (C)	-20 to 85°C (+- 1°C)
		Fahrenheit (F)	-4 to 185°F (+- 1.8°F)

4.12 Battery

1. The 2.90V or more battery voltage corresponds to 100% battery level, and 2.60V or less corresponds to 0%.
2. If send Battery Get to the device, it will issue Battery Report with battery level to the requester when waked up.
3. If waked up or power on, it will detect battery level, and issue Battery Report via Lifeline when battery level change over 10%.
4. If waked up or power on, it will detect battery level, and issue Battery Report 0xFF via Lifeline when battery level is less than the value of configuration parameter 23.

4.13 Indicator

Indicator ID		Property ID	
Node Identify (blue Led)	0x50	On Off Period	0x03
		On Off Cycles	0x04
		On time within an On/Off period	0x05

4.14 Configuration

Parameter	0x01 (1)
Name	Set threshold Check Time

Info	Set threshold Check Time			
Properties	Size	4	Min Value	0
	Format	Unsigned Integer	Max Value	2678400
	Read-only	False	Default Value	900
	Altering capabilities	False	Advanced	False
Description	When using battery power, follow this configuration, the minimum time is 30 seconds. When using USB power supply, for real-time detection.			
	Value	Function		
	0	Disable		
	30~65535	Seconds		

Parameter	0x02 (2)			
Name	Minimum temperature change to report			
Info	Trigger temperature report			
Properties	Size	1	Min Value	0
	Format	Unsigned Integer	Max Value	255
	Read-only	False	Default Value	20(EU,ANZ) / 36(US)
	Altering capabilities	False	Advanced	False
Description	The check interval time is set by configuration parameter 1.			
	Value	Function		
	0	Disable		
	1~255	0.1~25.5 degree		

Parameter	0x03 (3)			
Name	Minimum humidity change to report			
Info	Trigger humidity report			
Properties	Size	1	Min Value	0
	Format	Unsigned Integer	Max Value	255

	Read-only	False	Default Value	50
	Altering capabilities	False	Advanced	False
Description	The check interval time is set by configuration parameter 1.			

Value	Function
0	Disable
1~255	0.1~25.5 %

Parameter	0x04 (4)			
Name	Enable led indication			
Info	Enable led indication			
Properties	Size	1	Min Value	0
	Format	Bit field	Max Value	0x0F
	Read-only	False	Default Value	0x0F
	Altering capabilities	False	Advanced	False

Description: This parameter defines when the green or red LED will indicate events. Disabling all indications may extend battery life. Value 0 means no indications. 0 - disable, 1 - enable

7	6	5	4	3	2	1	0
Reserved	Reserved	Reserved	Reserved	Device Tampering (red led)	Mold danger alarm (red led)	Wake up interval report (green led)	Periodic Reports (green led)

Parameter	0x0C (12)			
Name	Sensor Limit Enable			
Info	Sensor Limit Enable			
Properties	Size	1	Min Value	0
	Format	Bit field	Max Value	0x0F
	Read-only	True	Default Value	0
	Altering capabilities	False	Advanced	False

Description	0 - disable, 1 - enable							
	7	6	5	4	3	2	1	0
	Reserved	Reserved	Reserved	Reserved	Humidity lower limit	Temperature lower limit	Humidity upper limit	Temperature upper limit

Parameter	0x0D (13)			
Name	Offset value for Mold danger alarm			
Info	Increase the humidity threshold			
Properties	Size	1	Min Value	0
	Format	Unsigned Integer	Max Value	40
	Read-only	False	Default Value	0
	Altering capabilities	False	Advanced	False
Description	The default Relative Humidity to trigger Mold danger alarm is 60%.			
	Value	Function		
	0--40	0%--40%		

Parameter	0x0E (14)			
Name	Temperature Upper Watermark value			
Info	Send BASIC Set to Group 2 if exceeded			
Properties	Size	2	Min Value	0x0000 (0)(EU/AU) 0x0020(32)(US)
	Format	Unsigned Integer	Max Value	0x03E8 (1000)(EU/AU) 0x0848(2120)(US)
	Read-only	False	Default Value	0x012C(300)(EU/AU) 0x035C (860)(US)
	Altering capabilities	False	Advanced	False
Description				
	Value	Function		
	1~1000	0.1~100 degree		

Parameter	0x0F (15)			
Name	Temperature Lower Watermark value			
Info	Send BASIC Set to Group 3 if below			
Properties	Size	2	Min Value	0xFF38 (-200) (EU/AU) 0xFFD8(-40)(US)
	Format	Signed Integer	Max Value	0x03E8 (1000)(EU/AU) 0x0848(2120)(US)
	Read-only	False	Default Value	0 (EU/AU) 0x0140 (320) (US)
	Altering capabilities	False	Advanced	False
Description				
	Value	Function		
	-200~1000	-20~+100 degree		

Parameter	0x10 (16)			
Name	Humidity Upper Watermark value			
Info	Send BASIC Set to Group 4 if exceeded			
Properties	Size	2	Min Value	0
	Format	Unsigned Integer	Max Value	1000
	Read-only	False	Default Value	700
	Altering capabilities	False	Advanced	False
Description				
	Value	Function		
	0~1000	0%~100.0%		

Parameter	0x11 (17)
Name	Humidity Lower Watermark value
Info	Send BASIC Set to Group 5 if below

Properties	Size	2	Min Value	0
	Format	Unsigned Integer	Max Value	1000
	Read-only	False	Default Value	300
	Altering capabilities	False	Advanced	False
Description				

Value	Function
0~1000	0%~100.0%

Parameter	0x12 (18)			
Name	High Temperature Trigger BASIC Set Send			
Info	Set BASIC Set value send to Group2			
Properties	Size	1	Min Value	0
	Format	Unsigned Integer	Max Value	255
	Read-only	False	Default Value	0
	Altering capabilities	False	Advanced	False
Description				

Value	Function
0~255	Basic Set Value

Parameter	0x13 (19)			
Name	Low Temperature Trigger BASIC Set Send			
Info	Set BASIC Set value send to Group3			
Properties	Size	1	Min Value	0
	Format	Unsigned Integer	Max Value	255
	Read-only	False	Default Value	255
	Altering capabilities	False	Advanced	False
Description				

	Value	Function
	0~255	Basic Set Value

Parameter	0x14 (20)			
Name	High Humidity Trigger BASIC Set Send			
Info	Set BASIC Set value send to Group4			
Properties	Size	1	Min Value	0
	Format	Unsigned Integer	Max Value	255
	Read-only	False	Default Value	0
	Altering capabilities	False	Advanced	Fasle
Description				

	Value	Function
	0~255	Basic Set Value

Parameter	0x15 (21)			
Name	Low Humidity Trigger BASIC Set Send			
Info	Set BASIC Set value send to Group5			
Properties	Size	1	Min Value	0
	Format	Unsigned Integer	Max Value	255
	Read-only	False	Default Value	255
	Altering capabilities	False	Advanced	False
Description				

	Value	Function
	0~255	Basic Set Value

Parameter	0x16 (22)
Name	Enable Binary Sensor Report

Info	for mold danger state			
Properties	Size	1	Min Value	0
	Format	Enumerated	Max Value	1
	Read-only	False	Default Value	0
	Altering capabilities	False	Advanced	False
Description	Backwards compatibility, Binary Sensor for mold danger state			

Value	Function
0	Disable
1	Enable

Parameter	0x17 (23)			
Name	Low battery threshold			
Info	Low battery threshold			
Properties	Size	1	Min Value	10
	Format	Unsigned Integer	Max Value	50
	Read-only	False	Default Value	20
	Altering capabilities	False	Advanced	False
Description	Report low battery report when level goes under threshold setting			

Value	Function
10-50	10-50%

Parameter	0x18 (24)			
Name	Periodic Reports			
Info	Periodic Reports			
Properties	Size	4	Min Value	0
	Format	Unsigned Integer	Max Value	2678400
	Read-only	False	Default Value	43200

	Altering capabilities	False	Advanced	False
Description	The period of battery, temperature and humidity report, the minimum time is 30 seconds.			
	Value	Function		
	0	Disable		
	30~65535	Seconds		

Parameter	0x19 (25)			
Name	Offset value for Temperature			
Info	Calibrate temperature			
Properties	Size	2	Min Value	-200
	Format	Signed Integer	Max Value	200
	Read-only	False	Default Value	0
	Altering capabilities	False	Advanced	False
Description	Scale is defined by Parameter 64.eg: Value 15 means 1.5°C or 1.5F			
	Value	Function		
	-200~200	-20.0~20.0 degrees		

Parameter	0x1A (26)			
Name	Offset value for Humidity			
Info	Calibrate humidity			
Properties	Size	2	Min Value	-200
	Format	Signed Integer	Max Value	200
	Read-only	False	Default Value	0
	Altering capabilities	False	Advanced	False
Description				
	Value	Function		
	-200~200	-20.0~20.0%		

Parameter	0x40 (64)			
Name	Temperature Scale			
Info	scale for auto reports and setting			
Properties	Size	1	Min Value	0
	Format	Enumerated	Max Value	1
	Read-only	False	Default Value	0(EU)/1(US)
	Altering capabilities	False	Advanced	False
Description				

Value	Function
0	Celsius
1	Fahrenheit