

# Recessed Door Sensor 7



## **Engineering Specification**

## **Recessed Door Sensor 7**

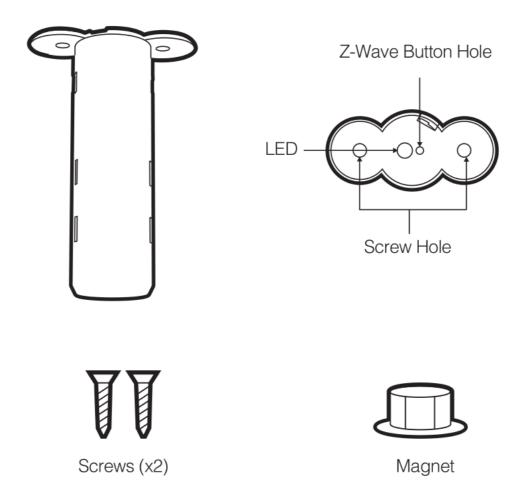
Document No.	SPEC-ZW187
Description	This document mainly introduces the new generation AEOTEC Recessed Door Sensor. The content mainly includes its interfaces, accessories, features, specifications, quick start, and software function definition.  Recessed Door Sensor 7 is a Z-Wave Plus v2 device with many advantages.  Can be embedded inside the wooden door or window.  Used to send out notification via Group 1 (Lifeline) when Magnet is away or near.  Used to control other Z-Wave device directly via Group 2.  Support SmartStart, which makes inclusion more convenient.  Support S2, which makes it more secure and reliable.
Written By	
Date	
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Date	
Approved By	
Date	

	REVISION RECORD			
Version	Version Date Brief description of changes			
1	2019.07.24	First revision.		

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## 1 INTERFACES & ACCESSORIES



Terminology	Description
Action Button	Inside the Z-Wave Button Hole. Used for networking and resetting.
LED	Used for indicating the current state of the product.
Magnet	Change the sensor state via making the Magnet away or near.

## **2 FEATURES & SPECIFICATIONS**

#### 2.1 Structural Characteristics

Parameter	'alue			
Product Identifier	/187			
Dimensions	Main Sensor: Φ19.2×64mm Magnet Sensor: Φ22×13mm			
Weight	30g			
Color	nite			
Shell Material	BS			
Shell Fire-proof Level	JL94 V-0			
Waterproof and Dustproof	Rated IP20 under IEC 60529			
Usage	For indoor use. Can be embedded inside the wooden door or window.			
Operating Temperature	32~104°F (0~40°C)			
Relative Humidity	8%~80%			

#### 2.2 Hardware Characteristics

Parameter	Value			
Z-Wave Module	ZGM130S037HGN1			
Z-Wave TX Power	Max: 13dBm			
Z-Wave Antenna Distance	Om (Indoor) /150m (Outdoor)			
Indicator Light Color	Red			
Buttons and Connectors	Action Button (x1), Magnet(x1)			
Input Voltage	3.0V Lithium battery			
Battery Included	Yes. 1pcs battery included.			
Battery Required	Yes. 1pcs battery required.			
Battery Info	Model: CR2 Capacity: 800mAh Detachable: Yes Chargeable: No Endurance: 2 years			
Working Current	30mA			
Standby Current	10uA (Inside the Z-Wave network) / 50uA(Outside the Z-wave network)			
Maximum Standby Power Consumption	0.03mW			
Built-in Sensors	Reed switch			
Safety Certifications	US: FCC/ETL EU: CE AU: RCM			

#### 2.3 Software Characteristics

Parameter	Value
Wireless Technology	Z-Wave
Certification Type	Z-Wave Plus v2 Certification
Z-Wave SDK Version	7.11.0.GA (7.11)
Z-Wave Library Type	Enhanced 232 Slave
Z-Wave Role Type	ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_SLEEPING_REPORTING (0x06)
Generic Device Type	GENERIC_TYPE_SENSOR_NOTIFICATION (0x07)
Specific Device Type	SPECIFIC_TYPE_NOTIFICATION_SENSOR (0x01)
Security Class	Non-Security, S0, S2 Unauthenticated, and S2 Authenticated

SmartStart Compatible	Support. After powering on, SmartStart is auto activated if it's out of the Z-Wave network.
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 3.6 How to factory reset.
Power-down Memory	Support. All command settings will stay unchanged even power down.
Timed battery report	Support. Refer to Configuration Parameter 101.
Low battery warning	Support. Refer to Configuration Parameter 90.
Sensor State Report	Support. When Magnet is away or near, send out notification via Group 1.
Control other device	Support. When Magnet is away or near, control other Z-Wave device directly via Group 2.

#### 3 PRODUCT QUICK START

#### 3.1 Important safety information

Please read this Engineering Specification carefully for correct and effective use.

Failure to follow the recommendations set forth by AEOTEC Limited may be dangerous or cause a violation of the law. The manufacturer, importer, distributor, and/or reseller will not be held responsible for any loss or damage resulting from not following any instruction in this guide or in other materials.

Recessed Door Sensor 7 is intended for indoor use in dry locations only. Do not use in damp, moist, and /or wet locations. Contains small parts; keep away from children.

#### 3.2 Optimally placing the product

Recessed Door Sensor 7 has been designed to be installed within a door and its surrounding frame. To optimally install it, please note the following.

Recessed Door Sensor 7 must be installed so that its two parts separate when the door it is installed within is opened.

Typically, the larger part is installed in the door itself, while the smaller part is installed in the surrounding frame. This is not mandatory, however, and the installation can be reversed provided the drill hole instructions are suitably adapted.

As a magnetic sensor utilising wireless communication, Recessed Door Sensor 7 may not optimally work when mounted on a metal frame or close to metal objects such as door locks. Test accordingly before mounting Recessed Door Sensor 7 with adhesive tape or screws.

To be installed, Recessed Door Sensor 7 requires a minimum spacing of around 1mm / 0.04inch between the door and its frame when closed. The gap should be no larger than 12mm / 0.47inch.

When the door is closed and the sensor's two parts are installed, they should align.

Owing to both the magnet and the Z-Wave Plus antenna housed with Recessed Door Sensor 7, the two highlighted areas in this diagram are generally considered optimal.

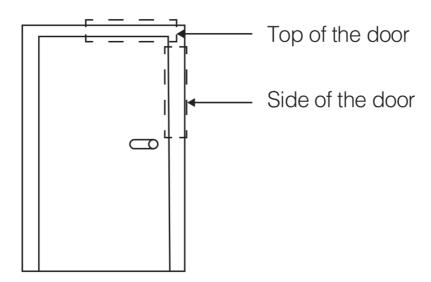


Diagram 1; optimal placement locations.

#### 3.3 How to install the product

The following extra things are needed for the installation: screwdriver, 19mm wide drill bit, drill driver, PVA glue, rubber hammer.

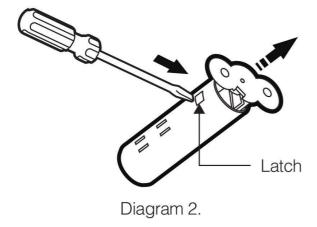
- 1. Drill a hole 65mm / 2.56inch deep in your door at the selected location with a 19mm / 0.75inch wide drill bit.
- 2. Drill a hole 15mm / 0.59inch deep in your doorframe at the corresponding location with a 19mm / 0.75inch wide drill bit.
- 3. Insert sensor into the hole you drilled in the door. If it requires force to push the sensor, expand the drill hole accordingly. Secure the sensor with two of the provided screws.
- 4. Place a small amount of white PVA glue inside of the hole you drilled in the doorframe. Insert the magnet into the hole. If it requires force to insert, it can typically be tapped into place with a rubber hammer.

#### 3.4 How to add the product into Z-Wave network

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

Note: 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 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. QR Code and PIN are used for SmartStart inclusion. DSK Code can be found on packaging. Do not remove or damage them.

1. Press the sensor latch with a slotting screwdriver to remove the lid of the sensor.



2. Squeeze the sides of the sensor casing to alleviate pressure on the chipboard; slide the chipboard out.

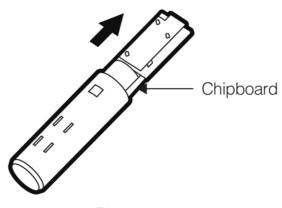


Diagram 3.

3. Remove the Pull Tab to engage the pre-installed battery. LED will become slow fade-in fade-out Red color for a few seconds which will indicate that its power is on.

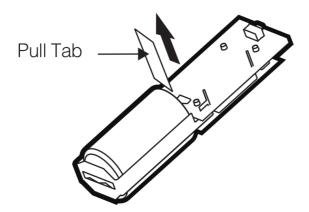


Diagram 4.

- 4. Add Recessed Door Sensor 7 to your Z-Wave network;
- A. If your Z-Wave gateway supports SmartStart, Recessed Door Sensor 7 is SmartStart enabled allowing you to connect it to your Z-Wave gateway by scanning your device's QR Code using your gateway's app. Once scanned, Recessed Door Sensor 7 will join your Z-Wave network automatically within 10 minutes.
- B. If your gateway supports the Z-Wave Device Specific Key (DSK) security protocol, enter the first 5 digits of your device's DSK into your gateway's interface when prompted.
- C. Else, set your Z-Wave gateway into its 'add device' mode. Refer to the gateway's manual if you are unsure of how to perform this step. Then press Recessed Door Sensor 7's Action Button once, its red LED will flash Red color.
- 5. When Recessed Door Sensor 7 successfully joins your Z-Wave network its LED will turn solid red for 10 seconds. If LED becomes slow fade-in fade-out Red color before turning off, it means the device is still unable to join your Z-Wave network; repeat the above steps and please contact us for further support if needed.
- 6. Squeeze the sides of the sensor casing lightly again and re-insert the chipboard as it was. Re-attach the lid.

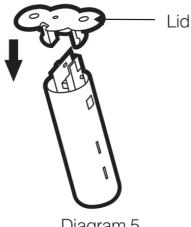


Diagram 5.

Recessed Door Sensor 7 is now a part of your Z-Wave home control system. You can configure it and its automations via your Z-Wave system; please refer to your software's user guide for precise instructions.

#### 3.5 How to remove the product from Z-Wave network

- 1. Set your Z-Wave Controller into its 'Remove Device' mode in order to remove the product from your Z-Wave system. Refer to the Controller's manual if you are unsure of how to perform this step.
- 2. Make sure the product is powered.
- 3. Click Action Button once; LED will become flash Red color for 5 seconds.
- 4. If Removing fails, it will extinguish, without slow fade-in fade-out Red color.
- 5. If Removing succeeds, it will become slow fade-in fade-out Red color for 10 seconds, and then extinguish. Now, it is removed from Z-Wave network successfully.

#### 3.6 How to factory reset

If the primary controller is missing or inoperable, you may need to reset the device to factory settings.

Make sure the product is powered. To complete the reset process manually, press and hold the Action Button for at least 22s and release the Action Button when LED becomes slow fade-in fade-out Red color, then Factory Reset is performed. Contact us for further support if needed.

#### Note:

- 1. This procedure should only be used when the primary controller is missing or inoperable.
- 2. Factory Reset will:
- (a) Remove the product from Z-Wave network;
- (b) Delete the Association setting;
- (c) Restore the configuration settings to the default.

## 4 SOFTWARE FUNCTION DEFINITION

#### 4.1 User Behavior Interaction

User behavior	Out of the Z-Wave network	In the Z-Wave network		
Power OFF	Cut the power.	Cut the power.		
Power ON	Send Inclusion Requests for SmartStart Learn Mode. LED will slow fade-in fade-out Red color for 10 seconds, which means it's out of the Z- Wave network.			
	LED will become flash Red color if gateway is adding the device into the network through SmartStart.	·		
	If Adding fails, LED will go back to slow fade- in fade-out Red color for 10 seconds. Device will auto-reset and then activate SmartStart Learn Mode again.			
Make Magnet away or near	Reverse. LED will NOT flash.	Trigger Association function. LED will flash Red color. Refer to Section 4.7 and 4.13 for details about Association function.		
Click Action Button once	<b>1.Send Node Info for Adding.</b> When click Action Button once, LED become flash Red color for 30s until it is added into the network.	1. Send Node Info for Removing.  LED will become flash Red color for 5 seconds.		
		If Removing succeeds, it will become slow fade-in fade-out Red color for 10 seconds, and then extinguish.		
		If Removing fails, it will extinguish, without slow fade-in fade-out Red color.		
		2. Exit 10 Minutes Awake Mode:  If the product is in the 10 Minutes Awake Mode, it will goes into sleep immediately when click the Action Button once, and LED will extinguish.		
	· ·	3. Exit testing Power Level function:  If the product is triggered to testing communication quality, it will exit testing Power Level function and LED will		
Press and hold Action Button for [0.4, 2s)	Reserved.	Reserved. LED is OFF.		
Press and hold Action Button for [2, 5s)	Reserved.  1. Issue Wake Up Notification an awake for 10 minutes unless put to sl Wake Up No More Information framis, 10 Minutes Awake Mode.  When time reaches 2s, LED will becompulsing Red color when Action But pressed, and become solid Red color			

		released for 10 minutes and then off, or goes into sleep immediately if receiving the Wake Up No More Information CC frame from the gateway.  2. Exit 10 Minutes Awake Mode
		If the product is in the 10 Minutes Awake Mode, it will goes into sleep immediately when press and hold Action Button for [2,5s], and LED will extinguish.
Press and hold Action Button for [5, 10s)	Reserved.	Test Power Level function. When time reaches 5s, LED will become faster pulsing Red color when Action Button is pressed, and become flash pulsing Red color when released, indicating that testing signal strength to gateway has started.
		After the testing is complete: a. If the transmission quality is good: the LED will change to be solid ON state for 3 seconds and then off. b. If the transmission quality is weak: the LED will change to slowly blink for 3 seconds and then off.
		Note: If want to exit testing Power Level function, please click the Action Button once.
Press and hold Action Button for [10, 20s)	Reserved.	Reserved. When time reaches 10s, LED will flash even faster pulsing Red color when Action Button is pressed, and extinguish when released.
Press and hold Action Button for [20, 22s)	Reserved.	Factory Reset. When time reaches 20s, LED will become solid Red color when Action Button is pressed, and Factory Reset is performed when released.
		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.
		LED will become slow fade-in fade-out Red color, which indicates the reset operation is completed.
Press and hold Action Button for [22, ∞)	Reserved.	Factory Reset. When the time reaches 22s, LED will become slow fade-in fade-out Red color, and Factory Reset is performed when Action Button is released.
		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.

#### 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.

Community Class	Version	Not added	Non-secure added	Securely 0 added		Securely 2 added	
Command Class				Non-secure	Secure	Non-secure	Secure
ZWAVEPLUS_INFO	2	Support	Support	Support		Support	
ASSOCIATION	2	Support	Support		Support		Support
MULTI_CHANNEL_ASSOCIATION	3	Support	Support		Support		Support
ASSOCIATION_GRP_INFO	3	Support	Support		Support		Support
TRANSPORT_SERVICE	2	Support	Support	Support		Support	
VERSION	3	Support	Support		Support		Support
MANUFACTURER_SPECIFIC	2	Support	Support		Support		Support
DEVICE_RESET_LOCALLY	1	Support	Support		Support		Support
INDICATOR	3	Support	Support		Support		Support
POWERLEVEL	1	Support	Support		Support		Support
BATTERY	1	Support	Support		Support		Support
SENSOR_BINARY	2	Support	Support		Support		Support
CONFIGURATION	4	Support	Support		Support		Support
SECURITY	1	Support	Support	Support		Support	
SECURITY_2	1	Support	Support	Support		Support	
NOTIFICATION	8	Support	Support		Support		Support
WAKE_UP	2	Support	Support		Support		Support
SUPERVISION	1	Support	Support	Support		Support	
FIRMWARE_UPDATE_MD	5	Support	Support		Support		Support
APPLICATION_STATUS	1	Support	Support	Support		Support	

#### 4.3 Basic Command Class mapping

Basic CC does not map to any Command Class.

#### 4.4 Z-Wave Plus Info

Parameter	Value
Z-Wave Plus Version	2
Role Type	6 (ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_SLEEPING_REPORTING)
Node Type	0 (ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0C06 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_ACCESS_CONTROL)
User Icon Type	0x0C06 (ICON_TYPE_SPECIFIC_SENSOR_NOTIFICATION_ACCESS_CONTROL)

#### 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	0xBB(187)

#### 4.6 Version

Parameter	Value
Z-Wave Protocol Library Type	0x03
Z-Wave Protocol Version	0x07
Z-Wave Protocol Sub Version	0x0B
Firmware 0 Version	Z-Wave Chip Major Firmware Version
Firmware 0 Sub Version	Z-Wave Chip Minor Firmware Version
Hardware Version	0xBB(187)
Number of firmware targets	0x00

## 4.7 Association Group Info

#### Root device

ID	Name	Node count	Profile	Function
1	Lifeline	5	General: Lifeline	Device Reset Locally Notification: Issued when Factory Reset is performed. Battery Report: Issued periodically to report the current battery level; Issued when battery becomes low. Sensor Binary Report: Issued when Magnet is away or near. Notification Report (Type=0x06; Event=0x16): Issued when sensor state is changed to be Open Status. Notification Report (Type=0x06; Event=0x17): Issued when sensor state is changed to be Close Status. Notification Report (Type=0x08; Event=0x01): Issued when battery voltage change exceeds 20%. Notification Report (Type=0x09; Event=0x04; Param=0x55): Issued when reset due to Watch-Dog Timeout.
2	On/Off control (Access)	5	Notification: Access Control	Basic Set: Issued when Magnet is away or near.(The Basic Set Value is determined by Configuration Parameter 3)

#### 4.8 Notification

Notification Type		Notification Events		Description	
Access Control	0x06	Window/Door is open 0x16		Open Status.	
		Window/Door is closed	0x17	Close Status.	
Power Management	0x08	Power has been applied	0x01	Battery voltage change exceeds 20%.	
System	0x09	System software failure (manufacturer proprietary failure code provided)		Event/State Parameter=0x55: Reset due to Watch-Dog Timeout.	

### 4.9 Binary Sensor

Sensor Type		Sensor Value	Description
Door/Window 0x0A		0xFF	Open Status.
		0x00	Close Status.

### 4.10 Wake Up

#### 4.10.1 Wake Up Interval Capabilities Report

Parameter	Value	Time
Min Wake Up Interval Seconds	0x0000F0	240s (4 minutes)

Max Wake Up Interval Seconds	0xfffff0	16777200s	
Default Wake Up Interval Seconds	0x000E10	3600s (1 hour)	
Wake Up Interval Step Seconds	0x0000F0	240s (4 minutes)	

#### 4.10.2 Manual Wake Up triggered by a user activation

When re-power on, Wake Up Notification will be issued, and the Wake Up destination is according to the Wake Up Interval Set. The Wake Up period starts when the supporting node issues a Wake Up Notification and it ends either 10 seconds after the last received/transmitted frame or at the reception of a Wake Up No More Information Command by the Wake Up destination.

If press and hold the Action Button for 2s and release the Action Button when the LED becomes slow pulsing Red color, Wake Up Notification will also be issued, and the Wake Up destination is according to the Wake Up Interval Set. It will stay awake for 10 minutes after issuing Wake Up Notification, or goes into sleep immediately if receives Wake Up No More Information.

#### 4.11 Battery

- 1. If send Battery Get to the device, it will issue Battery Report with current battery level to the requester when waked up.
- 2. If re-power on, it will issue Battery Report with current battery level via Lifeline.
- 3. If waked up, it will detect battery level, and issue Battery Report (Value=0xFF) via Lifeline when battery level is less than or equal to threshold.
- 4. The 3.0V or more battery voltage corresponds to 100% battery level, and 2.6V or less corresponds to 0%.

#### 4.12 Indicator

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

#### 4.13 Configuration

Note: No Bulk Support equals to True. <u>It will return an Application Rejected Request Command when receiving</u>

<u>Configuration Bulk Set or Get (if received without Supervision encapsulation)</u>. It will reset all its configuration parameters if either manually reset to factory default or receives a Configuration Default Reset Command. It will NOT modify or reset any configuration parameter when being included or excluded of a Z-Wave network.

Parameter	0x01 (1)	0x01 (1)						
Name	Binary S	ensor Report						
Info	Enable/	Disable Binary Sen	sor Report					
Properties	Size		1	Min Value	0			
	Format		Unsigned Integer	Max Value	1			
	Read-on	ly	False	Default Value	0			
	Altering	capabilities	False	Advanced	False			
Description	Allow fo	r backward compa	tibility to report Binary if N	lotification Report cannot b	oe used for status changes.			
	Value Function							
	O Disable. Sensor Binary Report will NOT be issued via Lifeline when Magnet is away or ne							
	1	Enable. Sensor Bi	nary Report will be issued v	via Lifeline when Magnet is	away or near.			

Parameter	0x02 (2)	2 (2)					
Name	Sensor F	Reports					
Info	Reverse	Sensor Reports					
Properties	Size		1	Min Value	0		
	Format		Unsigned Integer	Max Value	1		
	Read-on	ly	False	Default Value	0		
	Altering	capabilities	False	Advanced	False		
Description	Reverse	both Sensor Binar	y Report and Notification F	Report.			
	Value Function						
	Open Status when Magnet is away, Close Status when magnet is near.						
	1	Close Status whe	n Magnet is away, Open Sta	atus when magnet is near.			

Parameter	0x03 (3)	0x03 (3)						
Name	Associa <sup>-</sup>	Association Group 2 Settings						
Info	Configu	re the Basic Set va	lue					
Properties	Size		1	Min Value	0			
	Format		Unsigned Integer	Max Value	6			
	Read-or	nly	False	Default Value	1			
	Altering	capabilities	False	Advanced	False			
Description	Determine the Basic Set value to control other Z-Wave devices directly when Magnet is away or near.							
	Value	Function						
	0	Disable completely.						
	1	Send Basic SET 0xFF when Magnet is away, and send Basic SET 0x00 when Magnet is near.						
	2	Send Basic SET 0x00 when Magnet is away, and send Basic Set 0xFF when Magnet is near.						
	3	Only send Basic S	ET 0xFF when Magnet is a	way.				
	4	Only send Basic SET 0x00 when Magnet is near.						
	5	Only send Basic SET 0x00 when Magnet is away.						
	6	Only send Basic SET OxFF when Magnet is near.						

Parameter	0x04 (4)	04 (4)						
Name	Applicat	ation Layer Retry						
Info	Configu	re retry number ar	nd wait time					
Properties	Size		2	Min Value	0			
	Format		Unsigned Integer	Max Value	0x05FF			
	Read-only		False	Default Value	0			
	Altering	capabilities	False	Advanced	True			
Description	transmis	ssion error when <b>B</b>	' ' <i>'</i>	n when the application of <b>port or Notification Repor</b> t on Report.				
	Value Function							
	Value 1 Configure the number of retries. The valid value is 0-5. 0 means disable retry.							
	Value 2	Configure the wa	it time between retries. Th	e valid value is 0-255. Unit	is 100ms.			

Parameter	0x05 (5)				
Name	Supervision Report Wait Time				
Info	Configure Supervision Report Wait Time				
Properties	Size	1	Min Value	1	
	Format	Unsigned Integer	Max Value	50(0x32)	

	Read-only		False	Default Value	15(0x0F)	
	Altering capabilities		False	Advanced	True	
Description	ription Configure Supervision Report Wait Time					
	Value	Function				
		Configure Supervision Report Wait Time. Unit is 100ms.  Note: Issuing Basic Set, Sensor Binary Report or Notification Report(Access Control) via association groups uses Supervision encapsulation only if sending commands with S2(or higher security) encapsulation. In other word, this parameter can be configured in any network, but works only in S2 (or higher security) network.				

Parameter	0x51 (81)					
Name	LED Ind	LED Indicator				
Info	Control	Control LED Indicator				
Properties	Size		1	Min Value	0	
	Format		Unsigned Integer	Max Value	3	
	Read-o	nly	False	Default Value	3	
	Altering capabilities		False	Advanced	False	
Description	Determine whether the LED flash or not when sending Basic Set, Sensor Binary Report, Notification Report (Access Control) or Wake Up Notification.					
	Value	Function				
	0	Completely disable LED.				
	1	LED quickly flashes only when sending Basic Set, Sensor Binary Report or Notification Report (Access Control).				
	2	LED activates only when sending Wake Up Notification.				
	3	LED quickly flashes when sending Basic Set, Sensor Binary Report or Notification Report (Access Control), and activates when sending Wake Up Notification.				

Parameter	0x5A (90)						
Name	Low batt	ow battery threshold					
Info	Configur	Configure the low battery threshold					
Properties	Size		1	Min Value	10(0x0A)		
	Format		Unsigned Integer	Max Value	50(0x32)		
	Read-only		False	Default Value	30(0x1E)		
	Altering	capabilities	False	Advanced	False		
Description	Induce b	duce battery report when battery level is less than or equal to threshold. Forward low battery report.					
	Value	Function					
	10-50	10%-50%.					

Parameter	0x65 (101)					
Name	Timed bat	d battery report				
Info	Enable/Di	ble/Disable timed battery report				
Properties	Size		2	Min Value	1	
	Format		Unsigned Integer	Max Value	14400(0x3840)	
	Read-only	,	False	Default Value	70(0x0046)	
	Altering c	apabilities	False	Advanced	False	
Description	Enable/Di	Enable/Disable timed battery report and sets how often battery is reported in minutes.				
	Value Function 1-14400 Enable timed battery report and sets how often battery is reported in minutes.					