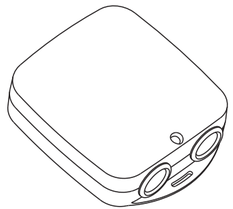
AEOTEC
BY AEON LABS

HEAVY DUTY SMART SWITCH

GEN5

View the digital manual:
http://aeot.ec/spprt/heavyduty



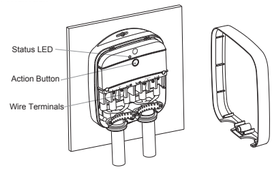
1 Aeotec by Aeon Labs Heavy Duty Smart Switch Gen5.

Your high-powered utilities and services don't always have to be turned on. They don't always have to be costing you money. With Heavy Duty Smart Switch you'll have full control of them. You'll have the ability to wirelessly turn them on or off using Z-Wave®. You'll be able to do it remotely and you'll be able to do it with an automatic schedule. You'll also be able to save money immediately when you use Heavy Duty Smart Switch's inbuilt energy monitoring capabilities. You'll receive real-time reports of just how much electricity you're paying for. You'll then be able to use scheduling and automatic controls to reduce the money you spend on appliances that need up to 40 amps of power.

2 Familiarise yourself with your Heavy Duty Smart Switch Gen5.

Package Contents:

- Heavy Duty Smart Switch Gen5
- 8AWG Wire terminal (x8)
- 10AWG Wire terminal (x8)
- Screws (x2)
- Instruction Manual



Action button: Used for Heavy Duty Smart Switch Z-Wave network inclusion and exclusion and to manually turn on or off.
Warning: Be careful of electric shock. Only installation and maintenance personnel should operate this button and get rid of the paragraph break.

Status LED: Indicates your Heavy Duty Smart Switch's status;

Terminals: There are two groups of terminals. As marked, mains power is to be connected to AC Power and the electric load to Load.

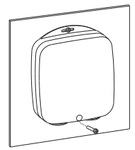
Important: A licensed electrician with knowledge and understanding electrician systems and electrical safety should complete the electrical installation.

3 Quick start

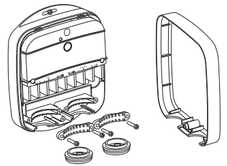
Important: Heavy Duty Smart Switch Gen5 must wired behind an air break switch for safety and electric appliance.

Before wiring, you must switch off the air break switch and confirm that the circuit power is down. If the air break switch is out of sight, please lock it to 'OFF' position and tag it to prevent unexpected application of power.

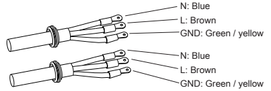
1. Mount your Heavy Duty Smart Switch on a wall as shown:



2. Loosen your Heavy Duty Smart Switch's lower screw to release its shell. Remove the shell to reveal the inner electronics.



3. Prepare the wires you will be attaching to your Heavy Duty Smart Switch by stripping them to the necessary length. Add wire terminals to each wire.

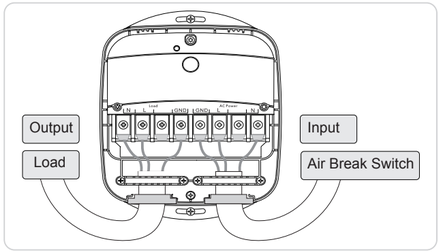


4. Wire your Heavy Duty Smart Switch according to the following diagram. As shown below, connect each live lines from Air Break Switch to the corresponding terminals marked L on your Heavy Duty Smart Switch.
If there is a Neutral line and GND from the Air Break Switch, please respectively connect them to the terminals labelled N and GND. Similarly, wire the electric load with your Heavy Duty Smart Switch. As a final step, tighten the screws to the wire terminals.

Important: You must make sure the wire terminals are connected firmly with each corresponding terminal on your Heavy Duty Smart Switch.

Please pay attention to the power and current of equipment. If the current is less than 32A, you can use AWG10# wire. If the current exceeds 32A, please use AWG8# wire.

Warning: Device current can not exceed 40A.



5. Power on your Heavy Duty Smart Switch. At this stage you need to add it to your Z-Wave network. If you're using an Aeotec Z-Stick or Minimote, please refer the "Z-Wave Network Instructions" section of this user guide. If you're using an alternative gateway, please refer to the respective section of its user manual using your Heavy Duty Smart Switch's Action Button to put it into inclusion mode.

6. Once added to your Z-Wave network, replace your Heavy Duty Smart Switch's shell, refastening it.

7. The product can be mounted on a wall or surface. To do so, drill a ø2.5mm hole that corresponds to the up upper part of your switch. Drill a second hole 138mm below this. Affix screws. Your installation is now complete.

Note:

1. Your switch should be installed in a ventilated area with good heat dissipation.
2. Your switch should access to the protective earth (green/yellow) line.
3. Your switch should have front-end access to a short-circuit protection.
4. Only professionals should install, repair, or open your switch's casing.

4 Z-Wave network instructions.

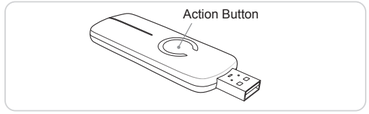
Your Heavy Duty Smart Switch must be paired with a Z-Wave network before it can receive wireless commands or report the energy consumption of the attached electronics.

Note: The LED on your Heavy Duty Smart Switch will blink if it is not currently paired with a Z-Wave network.
Tip: Turn off any devices connected to your Heavy Duty Smart Switch before adding or removing it to / from a Z-Wave network. This will help to prevent load damage.

Adding your Heavy Duty Smart Switch Gen5 to a Z-Wave network.

If you're using a Z-Stick:

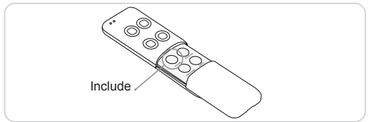
1. Decide on where you want your Heavy Duty Smart Switch to be placed and set it up as per the Quick Start guide steps 1 to 5. Its Status LED will begin to blink.
2. If your Z-Stick is plugged into a gateway or a computer, unplug it.
3. Take your Z-Stick to your Heavy Duty Smart Switch.
4. Press the Action Button on your Z-Stick.
5. Press the Action Button on your Heavy Duty Smart Switch.
6. If your switch has been successfully lincluded to your Z-Wave network, its Status LED will no longer blink. If the linking was unsuccessful, the Status LED continues to blink. Repeat the above steps.
7. Press the Action Button on your Z-Stick to take it out of inclusion mode.



If you're using a Minimote:

1. Decide on where you want your Heavy Duty Smart Switch to be placed and set it up as per the Quick Start guide steps 1 to 5. Its Status LED will begin to blink.
2. If your Minimote is plugged into a gateway or a computer, unplug it.

3. Take your Minimote to your Heavy Duty Smart Switch.
4. Press the Action Button on your Heavy Duty Smart Switch.
5. If your Heavy Duty Smart Switch has been successfully included to your Z-Wave network, its Status LED will no longer blink. If the inclusion was unsuccessful, the Status LED continues to blink. Repeat the above steps.
6. Press any button on your Minmote to take it out of inclusion mode.



If you are using another gateway:

To include your Heavy Duty Smart Switch with other controllers please consult the operation manual for these controllers on how to include Z-Wave products into an existing network.

Once synced with a gateway, you'll be able to configure your switch from it. Please refer to your software's user guide for precise instructions on configuring your Heavy Duty Smart Switch to your needs.

Tip: If the Status LED of your Heavy Duty Smart Switch does not blink when it's first powered up it means that your Heavy Duty Smart Switch is already part of another Z-Wave network. To rectify this, first follow the subsequent removal instructions before following the section 4 of this guide.

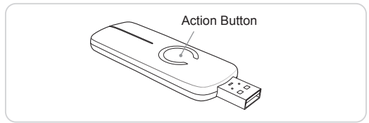
5 Advanced functions.

Removing your Heavy Duty Smart Switch Gen5 from a Z-Wave Network

You can remove your Heavy Duty Smart Switch from your Z-Wave network at any time. To do this you need use your main controller such as a Z-Stick or Minimote.

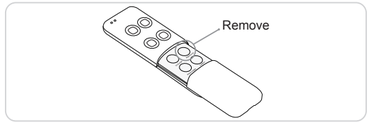
If you are using a Z-Stick:

1. If your Z-Stick is plugged into a gateway or a computer, unplug it.
2. Take your Z-Stick to your Heavy Duty Smart Switch.
3. Press the Action Button on your Z-Stick.
4. Press the Action Button on your Heavy Duty Smart Switch.
5. If your Heavy Duty Smart Switch has been successfully excluded from your network, its Status LED will blink. If the removal was unsuccessful, its Status LED will not blink.
6. Press the Action Button on your Z-Stick to take it out of exclusion mode.



If you are using a Minimote:

1. Take your Minimote to your Heavy Duty Smart Switch.
2. Press the Remove Button on your Minimote.
3. Press the Action Button on your Heavy Duty Smart Switch.
4. If your Heavy Duty Smart Switch has been successfully removed from your network, its Status LED will blink. If the removal was unsuccessful, its Status LED will not blink.
5. Press any button on your Minimote to take it out of removal mode.



Turn your Heavy Duty Smart Switch Gen5 on or off.

Your Heavy Duty Smart Switch can be turned on or off through the use of Z-Wave commands built into Z-Wave certified controllers and gateways. The specific Z-Wave commands supporting this function are the Basic Command Class and Binary Switch Command Class. Please consult the operation manual for your Z-Wave network controller for specific instructions on controlling your Heavy Duty Smart Switch.

Monitoring power consumption.

Your Heavy Duty Smart Switch can report Watts energy usage or KWh energy usage to a Z-Wave gateway or controller. If this function is supported by the gateway/controller, your energy consumption will be displayed within its user interface. The specific Z-Wave commands supporting energy monitoring are the Meter Command Class and Multilevel Sensor Command Class. Automatic reports go to association group 1, which is setup via the Association Command Class. Please consult your gateway's / controller's manual for instructions on monitoring energy consumption through your Heavy Duty Smart Switch.

6 Technical speciations.

Model number: ZW078-B/C
Waterproof: IP44
Power Consumption: 1W
Ratings: 240VAC, 50/60Hz;
Maxim 9600 Watts 40A Resistor;
240VAC 5HP AC Motor;
RF range: 600ft/200m outdoor;
Endurance of 10ms period peak current of 1440A
Environmental Conditions: Indoor use;
Altitude up to 2000m;
Ambient temperature 5°C to 40°C;
Max. relative humidity 80%;
Pollution degree 2.

7 Warranty.

Aeon Labs warrants to the original purchaser of Products that for the Warranty Period (as defined below), the Products will be free from material defects in materials and workmanship. The foregoing warranty is subject to the proper installation, operation and maintenance of the Products in accordance with installation instructions and the operating manual supplied to Customer. Warranty claims must be made by Customer in writing within thirty (30) days of the manifestation of a problem. Aeon Labs' sole obligation under the foregoing warranty is, at Aeon Labs' option, to repair, replace or correct any such defect that was present at the time of delivery, or to remove the Products and to refund the purchase price to Customer.

The "Warranty Period" begins on the date the Products is delivered and continues for 12 months.

Any repairs under this warranty must be conducted by an authorized Aeon Labs service representative and under Aeon Labs' RMA policy. Any repairs conducted by unauthorized persons shall void this warranty.

Excluded from the warranty are problems due to accidents, acts of God, civil or military authority, civil disturbance, war, strikes, fires, other catastrophes, misuse, misapplication, storage damage, negligence, electrical power problems, or modification to the Products or its components.

Aeon Labs does not authorize any person or party to assume or create for it any other obligation or liability in connection with the Products except as set forth herein.

Aeon Labs will pass on to Customer all manufacturers' Material warranties to the extent that they are transferable, but will not independently warrant any Material.

Customer must prepay shipping and transportation charges for returned Products, and insure the shipment or accept the risk of loss or damage during such shipment and transportation. Aeon Labs will ship the repaired or replacement products to Customer freight prepaid.

Customer shall indemnify, defend, and hold Aeon Labs and Aeon Labs' affiliates, shareholders, directors, officers, employees, contractors, agents and other representatives harmless from all demands, claims, actions, causes of action, proceedings, suits, assessments, losses, damages, liabilities, settlements, judgments, fines, penalties, interest, costs and expenses (including fees and disbursements of counsel) of every kind (i) based upon personal injury or death or injury to property to the extent any of the foregoing is proximately caused either by a defective product (including strict liability in tort) or by the negligent or willful acts or omissions of Customer or its officers, employees, subcontractors or agents, and/or (ii) arising from or relating to any actual or alleged infringement or misappropriation of any patent, trademark, mask work, copyright, trade secret or any actual or alleged violation of any other intellectual property rights arising from or in connection with the products, except to the extent that such infringement exists as a result of Aeon Labs' manufacturing processes.

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Warning

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

Certifications (regional)

Version: 501001000002-AA

www.aeotec.com

AEOTEC
BY AEON LABS

Aeon Labs Heavy Duty Smart Switch Gen5

(Z-wave Heavy Duty Smart Switch Gen5)

Change history

Revision	Date	Change Description
1	4/28/2013	Initial draft.
2	4/05/2014	Update Z-wave library
3	8/27/2014	Added Security CC

Aeon Labs Heavy Duty Smart Switch Gen5
Engineering Specifications and Advanced Functions for Developers
(V1.22)

Heavy Duty Smart Switch Gen5 is a Z-Wave power binary switch device based on Z-Wave enhanced 232 slave library V6.51.01

Heavy Duty Smart Switch Gen5 has 3 report groups. Report group have nothing to do with ASSOCIATION GROUP. Report group is a group of automatic reports sent at a certain time interval. All the reports in one group will send at the same time. The interval of transmission for each report group can be specified (configurable parameters 111-113). If Heavy Duty Smart Switch Gen5 does not have its association setup, it will not send automatic reports.

As soon as Heavy Duty Smart Switch Gen5 is excluded from a z-wave network it will restore itself into factory default settings.

1. Library and Command Classes

1.1 SDK: 6.51.01

1.2 Library

- Basic Device Class: BASIC_TYPE_ROUTING_SLAVE
- Generic Device class: GENERIC_TYPE_SWITCH_BINARY
- Specific Device Class: SPECIFIC_TYPE_POWER_SWITCH_BINARY

1.3 Commands Class

	Included Non-Secure	Included Secure
Node Info Frame	COMMAND_CLASS_ZWAVEPLUS_INFO V2 COMMAND_CLASS_SWITCH_BINARY V1 COMMAND_CLASS_SENSOR_MULTILEVEL V5 COMMAND_CLASS_METER V3 COMMAND_CLASS_SWITCH_ALL V1 COMMAND_CLASS_SCENE_ACTUATOR_CONF V1 COMMAND_CLASS_SCENE_ACTIVATION V1 COMMAND_CLASS_CONFIGURATION V1 COMMAND_CLASS_CRC_16_ENCAP V1 COMMAND_CLASS_ASSOCIATION_GRP_INFO V1 COMMAND_CLASS_ASSOCIATION V2 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_VERSION V2 COMMAND_CLASS_FIRMWARE_UPDATE_MD V2 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_SECURITY V1 COMMAND_CLASS_MARK V1 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1 COMMAND_CLASS_HAIL V1	COMMAND_CLASS_ZWAVEPLUS_INFO V2 COMMAND_CLASS_VERSION V2 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_SECURITY V1 COMMAND_CLASS_CRC_16_ENCAP V1 COMMAND_CLASS_MARK V1 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1 COMMAND_CLASS_HAIL V1
Security Command Supported Report Frame	–	COMMAND_CLASS_SWITCH_BINARY V1 COMMAND_CLASS_METER V3 COMMAND_CLASS_SENSOR_MULTILEVEL V5 COMMAND_CLASS_SWITCH_ALL V1 COMMAND_CLASS_SCENE_ACTUATOR_CONF V1 COMMAND_CLASS_SCENE_ACTIVATION V1

		COMMAND_CLASS_CONFIGURATION V1 COMMAND_CLASS_CRC_16_ENCAP V1 COMMAND_CLASS_ASSOCIATION_GRP_INFO V1 COMMAND_CLASS_ASSOCIATION V2 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_VERSION V2 COMMAND_CLASS_FIRMWARE_UPDATE_MD V2 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1 COMMAND_CLASS_HAIL V1

2. Technical Specifications

Operating distance: Up to 300 feet / 100 meters outdoors.
Input: 220V~, 60Hz. (USA Version)
220V~, 50Hz. (EU, AU, BR, CN, IN Version)
Output: 220V~, 60Hz, Max 40A Resistor load. (USA Version）
220V~, 50Hz, Max 40A Resistor load. (EU Version）
220V~, 50Hz, Max 40A Resistor load. (IN Version）
220V~, 50Hz, Max 40A Resistor load. (CN Version）
220V~, 50Hz, Max 40A Resistor load. (AU Version）
220V~, 50Hz, Max 40A Resistor load. (BR version)
Operating temperature: 0℃ to 40℃.
Relative humidity: 8-80%

3. Familiarize Yourself with Your Heavy Duty Smart Switch Gen5

3.1 Interface

4. All Functions of Each Trigger

4.1 Function of Action Button

Trigger	Description
Click one time	**Add Heavy Duty Smart Switch Gen5 into z-wave network:** 1. Insert the Heavy Duty Smart Switch Gen5 to power socket. The Heavy Duty Smart Switch Gen5 LED will blink slowly. 2. Let the primary controller into inclusion mode (If you don't know how to do this, refer to its manual). 3. Press the Action Button. 4. If the Learning success, Heavy Duty Smart Switch Gen5 LED will be kept turning on. If the LED is still in slow blink, in which you need to repeat the process from step 2. **Remove Heavy Duty Smart Switch Gen5 from z-wave network:** 1. Insert the Heavy Duty Smart Switch Gen5 to power socket. The Heavy Duty Smart Switch Gen5 LED will follow the status (on/off) of its load. 2. Let the primary controller into exclusion mode (If you don't know how to do this, refer to its manual). 3. Press the Action Button. 4. If the exclusion success, Heavy Duty Smart Switch Gen5 LED will blink slowly. If Heavy Duty Smart Switch Gen5 LED still follows the load status, in which you need to repeat the process from step 2.
Press and hold 20 seconds	**Reset Heavy Duty Smart Switch Gen5 to factory default:** 1. Make sure the Heavy Duty Smart Switch Gen5 has been connected to the power supply. 2. Press and hold the Action Button for 20 seconds. 3. If holding time more than one second, the LED will blink faster and faster. If holding time more than 20seconds, the LED will be on for 2 seconds, it indicates reset is success, otherwise please repeat step 2. **Note:** 1, This procedure should only be used when the primary controller is inoperable. 2, Reset Heavy Duty Smart Switch Gen5 to factory default settings, it will: a), let the Heavy Duty Smart Switch Gen5 to be excluded from Z-Wave network; b), delete the Association setting, power measure value, Scene Configuration settings; c), restore the Configuration settings to the default.

5. Special Rule of Each Command

5.1 Z-Wave Plus Info Report Command Class

Parameter	Value
Z-Wave Plus Version	1
Role Type	5 (ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_ALWAYS_ON)
Node Type	0 (ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0700 (ICON_TYPE_GENERIC_ON_OFF_POWER_SWITCH)
User Icon Type	0x0700 (ICON_TYPE_GENERIC_ON_OFF_POWER_SWITCH)

5.2 Association Command Class

Heavy Duty Smart Switch Gen5 supports 2 Association groups.
a), Group 1 is assigned to the Lifeline association group and every device has 5 nodes to associate. When the switch is turned on or off using the action button, the switch will send a basic report of its stat us to the nodes in association group 1. To change what kind of signal is sent to the nodes in group 1, ple ase see the detailed description of configuration parameter 80.

b), The Node IDs in Group 1 will receive Meter REPORT (for Watt/ KWH that can be configured in parameter 101~103) which is sent via single-cast (if there are more than 1 Node ID) when the automatic report has been configured.

c). When the product's load state is changed by receiving a controlling Basic Set CC/Switch Binary Set CC/ Scene Activation Set CC, which will lead to send the Basic Set CC/Switch Binary Set CC /Scene Activation Set CC to nodes in group 2.

5.3 Association Group Info Command Class

5.3.1 Association Group Info Report Command Class

Profile: General: NA (Profile MSB=0, Profile LSB=0)

5.3.2 Association Group Name Report Command Class

Group 1： Lifeline
Group 2：RetransmitSwitchCC

5.4 Scene Actuator Conf Command Class

Heavy Duty Smart Switch Gen5 supports 255 Scene ID.

The Scene Actuator Conf Set Command is effective, when the Level>=0 and Level<0x64 or Level=0xff (Level 0x01 ~ 0x63 will be mapped to 0xFF), otherwise, it will be ignored.

The Scene Actuator Configuration Get Command is used to request the settings for a given scene identifier, if Scene ID is not configured, it will be ignored. If the Scene ID Setting Dimming Duration = 0xff then Dimming Duration=0 or Dimming Duration= the value that you set. If Scene ID =0, then the Heavy Duty Smart Switch will report the currently active scene settings. If the currently active scene settings do not exist, the Heavy Duty Smart Switch will report "Level =the value of currently load status" and "Dimming Duration=0".

5.5 Scene Activation Set Command Class

The Scene Activation Set Command is effective, when only Level>=0 and Level<0x64 or Level=0xff (Level 0x01 ~ 0x63 will be mapped to 0xFF), otherwise, it will be ignored. If the requested Scene ID is not configured, it will be ignored too.

5.6 Configuration Set Command Class

7	6	5	4	3	2	1	0
Command Class = COMMAND_CLASS_CONFIGURATION							
Command = CONFIGURATION_SET							
Parameter Number							
Default	Reserved				Size		

Configuration Value 1(MSB)
Configuration Value 2
……
Configuration Value n(LSB)

Parameter Number Definitions (8 bit):

Parameter Number Hex / Decimal	Description	Default Value	Size
0x03 (3)	Current Overload Protection. Load will be closed when the Current more than 39.5A and the time more than 5 seconds (0=disabled, 1=enabled).	0	1
0x14 (20)	The load status after power on (0=last status, 1=always on, 2=always off)	0	1
0x50 (80)	Enable to send notifications to associated devices (Group 1) when the state of Heavy Duty Smart Switch Gen5's load changed (0=nothing, 1=hail CC, 2=basic CC report).	0	1
0x5A (90)	Enables/disables parameter 91 and 92 below (1=enabled, 0=Disabled).	1	1
0x5B (91)	The value here represents minimum change in wattage (in terms of wattage) for a REPORT to be sent (Valid values 0-60000).	50（W）	2
0x5C (92)	The value here represents minimum change in wattage percent (in terms of percentage) for a REPORT to be sent (Valid values 0-100).	10（%）	1
0x65 (101)	Which reports need to send in Report group 1 (See flags in table below).	0x00 00 00 04	4
0x66 (102)	Which reports need to send in Report group 2 (See flags in table below).	0x00 00 00 08	4
0x67 (103)	Which reports need to send in Report group 3 (See flags in table below).	0	4
0x6F (111)	The time interval of sending Report group 1 (Valid values 0x01-0x7FFFFFFF).	0x00 00 01 2C	4
0x70 (112)	The time interval of sending Report group 2 (Valid values 0x01-0x7FFFFFFF).	0x00 00 00 78	4

0x71 (113)	The time interval of sending Report group 3 (Valid values 0x01-0x7FFFFFFF).	0x00 00 00 78	4
0xC8 (200)	Partner ID (0= Aeon Labs Standard Product, 1= Others).	0	1
0xFC (252)	Enable/Disable Lock Configuration (0 =disable, 1 = enable).	0	1
0xFF (255)	1.Value=0x55555555、Default=1、Size=4 Reset to factory default setting and removed from the z-wave network	0	4
	2.Reset to factory default setting		

Configuration Values for parameter 101-103：

	7	6	5	4	3	2	1	0
configuration Value 1(MSB)	Reserved							
configuration Value 2	Reserved							
configuration Value 3	Reserved							
configuration Value 4(LSB)	Reserved	Reserved	Reserved	Reserved	Auto send Meter REPORT (for kWh) at the group time interval	Auto send Meter REPORT (for watt) at the group time interval	Auto send Meter REPORT (for current) at the group time interval	Auto send Meter REPORT (for voltage at the group time interval

- Reserved

Reserved bits or bytes must be set to zero.

Example:

Automatically report Meter CC (Watts) to node "1" every 12 minutes:

1. Set report group 1 to send Meter CC (Watts) automatically

ZW_SendData(0x70, 0x04, 0x65, 0x04, 0x00,0x00,0x00,0x04);

2. Set the interval of sending report group 1

ZW_SendData(0x70, 0x04, 0x6F, 0x04, 0x00,0x00,0x02,0xd0);

3. Associate to node "1"

ZW_SendData(0x85, 0x01, 0x01, 0x01);