

Smart Switch 6

View the expanded manual http://aeotec.com/support

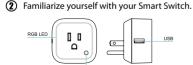


1 Aeotec by Aeon Labs Smart Switch.

Aeotec Smart Switch is a low-cost Z-Wave® Switch plugin module specifically used to enable Z-Wave command and control (on/off) of any plug-in tool. It can report immediate wattage consumption or kWh energy usage over a period of time. In the event of power failure, nonvolatile memory retains all programmed information relating to the unit's operating status.

Its surface has a Smart RGB LED, which can be used for indicating the output load status or strength of the wireless signal. You can configure its indication colour according to your favour.

The Smart Switch 6 is also a security Z-wave device and supports Over The Air (OTA) feature for the products firmware upgrade.



Quick start.

Getting your Smart Switch up and running is as simple as plugging it into a wall socket and linking it to your Z-Wave network. The following instructions tell you how to link your Smart Switch to your Z-Wave network via Aeotec by Aeon Labs' Z-Stick or Minimote controller. If you are using other products as your main Z-Wave controller, such as a Z-Wave gateway, please refer to the part of their respective manual that tells you how add new devices to your network.



When the Smart Switch is plugged into a wall socket and powered on it can act a repeater in your Z-wave network



1. Decide on where you want your Smart Switch to be placed and plug it in to a wall outlet. Its RGB LED will blink when you press the Action Button on the Smart

- 2. If your Z-Stick is plugged into a gateway or a computer, unplug it.
- 3. Take your Z-Stick to your Smart Switch.
- 4. Press the Action Button on your Z-Stick.
- 5. Press the Action Button on your Smart Switch.
- 6. If Smart Switch has been successfully linked to your Z-Wave network, its RGB LED will no longer blink. If the inclusion was unsuccessful and the LED continues to blink when you press the Action Button on the Smart Switch, repeat the instructions from step
- 7. Press the Action Button on the Z-Stick to take it out of inclusion mode and then return it to your gateway or computer



- 1. Decide on where you want your Smart Switch to be placed and plug it in to a wall socket. Its RGB LED will blink when you press the Action Button on the Smart
- 2. Take your Minimote to your Smart Switch.

- 3. Press the Include button on your Minimote.
- 4. Press the Action Button on your Smart Switch.
- 5. If Smart Switch has been successfully linked to your Z-Wave network, its RGB LED will no longer blink. If the inclusion was unsuccessful and the LED continues to blink when you press the Action Button on the Smart Switch, repeat the instructions from step
- 6. Press any button on your Minimote to take it out of inclusion mode

With your Smart Switch now working as a part of your smart home, you'll be able to configure it from your home control software. Please refer to your software's user guide for precise instructions on configuring Smart Switch to your needs.

The colour of RGB LED will change according to the output load power level when it is in Energy mode:

| Version | LED indication | Output (W) | | |
|---------|----------------|----------------|--|--|
| | Green | [0W, 800W) | | |
| US | Yellow | [800W, 1500W) | | |
| | Red | [1500W, ∞) | | |
| | Green | [0W, 1000W) | | |
| AU | Yellow | [1000W, 2000W) | | |
| | Red | [2000W, ∞) | | |

| | Version | LED indication | Output (W) | |
|----|---------|----------------|----------------|--|
| EU | | Green | [0W, 1500W) | |
| | EU | Yellow | [1500W, 3000W) | |
| | | Red | [3000W, ∞) | |

You can also configure the brightness of RGB LED when the Smart Switch is in Energy mode, Momentary Indicate mode, or Night Light mode.

 Removing your Smart Switch from a Z-Wave network

Your Smart Switch can be removed from your Z-Wave network at any time. You'll need to use your Z-Wave network's main controller to do this and the following instructions will tell you how to do this using a Aeotec by Aeon Labs' Z-Stick or Minimote controller. If you are using other products as your main Z-Wave controller. please refer to the part of their respective manuals that tells you how remove devices from your network.



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

If you're using a Minimote:

blink.



- Take your Minimote to your Smart Switch.
- 2. Press the Remove Button on your Minimote.

removal was unsuccessful, the RGB LED will not

3. Press the Action Button on your Smart Switch. 4. If your Smart Switch has been successfully removed from your network, its RGB LED will blink when you press the Action Button on the Smart Switch. If the

- 5. Press any button on your Minimote to take it out of removal mode.
- (4) Advanced functions.
- Changing LED mode.

You can change the mode of how the LED acts through configuring the Smart Switch. There are 3 different modes: Energy mode, Momentary indicate mode, and Night light mode.

Energy mode will allow the LED to follow the state of the Smart Switch, when the switch is on, the LED will be on, and while the switch is off, the LED will remain off. Momentary indicate mode will momentarily turn the LED on for 5 seconds then turn off after every state change in the switch. Night light mode will allow the LED to be turned on and off during your selected time of day you have configured for it.

Parameter 81 [1 byte dec] can be set to:

- (0) Energy Mode
- (1) Momentary Indicate Mode
- (2) Night Light Mode

 Security or Non-security feature of your Smart Switch in 7-wave network

If you want your Smart Switch is a non-security device in Z-wave network, you just need to press the Action Button once on Smart Switch when you use a controller/ gateway to add/include your Smart Switch.

In order to take full advantage of all functionality the Smart Switch, you may want your Smart Switch is a security device that uses secure/encrypted message to communicate in Z-wave network, so a security enabled controller/gateway is needed and then you need to press the Smart Switch's Action Button 2 times within 1 second when your security controller/gateway starts the network inclusion.

Reset your Smart Switch.

If at some stage, your primary controller is missing or inoperable, you may wish to reset all of your Smart Switch's settings to their factory defaults. To do this, press and hold the Action Button for 20 seconds and then release it. Your Smart Switch will now be reset to its original settings, and the RGB LED will be solid for 2 seconds and then start slow blinking as a confirmation.

(5) Technical specifications.

Model number: 7W096 Max standby power: 0.5W. USB output: DC 5V±0.3, 1000mA. Operating temperature: -10°C to 45°C.

Relative humidity: 8% to 80%. Operating distance: Up to 500feet/150metres outdoors. AC input:

| Version | Input | Working b |
|---------|---------------------|-----------|
| AU | 230V 50Hz, Max: 10A | 921.42M |
| BR | 220V 60Hz, Max: 10A | 921.42M |
| CN | 220V 50Hz, Max: 10A | 868.42M |
| EU | 230V 50Hz, Max: 13A | 868.42M |
| IL | 230V 50Hz, Max: 10A | 868.42M |
| IN | 230V 50Hz, Max: 6A | 865.22M |
| UK | 230V 50Hz, Max: 13A | 868.42M |
| US | 120V 60Hz, Max: 15A | 908.42MI |

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BE DEEMED WAIVED UNLESS MADE IN WRITING WITHIN

THIRTY (30) DAYS FROM AEON LABS'S DELIVERY, OR THE

⇒ FCC NOTICE (for USA)

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED

MODIFICATIONS TO THIS EQUIPMENT SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE

STORE INDOORS WHEN NOT IN USE. SUITABLE FOR DRY LOCATIONS, DO NOT IMMERSE IN WATER, NOT FOR USE WHERE DIRECTLY EXPOSED TO WATER.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device. pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the
- interference by one or more of the following measures: Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consul the dealer or an experienced radio/TV technician for help.

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):



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Version:501009600001-AA

www.aeotec.com

Aeon Labs Smart Switch 6 Engineering Specifications and Advanced Functions for Developers

Aeon Labs Smart Switch is a Z-Wave power binary switch device based on Z-Wave enhanced 232 slave library V6.51.06.

Its surface has the Smart RGB LEDs on, which can be used for indicating the output load status, the strength of wireless signal. You can also configure its indication colour according to your favour.

It can be included and operated in any Z-wave network with other Z-wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

It is also a security Z-wave device and supports the Over The Air (OTA) feature for the product's firmware upgrade. As soon as Smart Switch is removed from a z-wave network it will be restored into default factory setting.

1. Library and Command Classes

1.1 SDK: 6.51.06 **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 Network | Included Secure Network |
|-----------|--|--|
| | medaca Non Secure Network | included Secure Network |
| Node Info | COMMAND_CLASS_ZWAVEPLUS_INFO V2 | COMMAND_CLASS_ZWAVEPLUS_INFO V2 |
| Frame | COMMAND_CLASS_SWITCH_BINARY V1 | COMMAND_CLASS_VERSION V2 |
| | COMMAND_CLASS_CONFIGURATION V1 | COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 |
| | COMMAND_CLASS_SWITCH_ALL V1 | COMMAND_CLASS_SECURITY V1 |
| | COMMAND_CLASS_CLOCK V1 | COMMAND_CLASS_MARK V1 |
| | COMMAND_CLASS_METER V3 | COMMAND_CLASS_DEVICE_RESET_LOCALLY V1 |
| | COMMAND_CLASS_ASSOCIATION_GRP_INFO V1 | COMMAND_CLASS_HAIL 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 | |
| Security | _ | COMMAND_CLASS_SWITCH_BINARY V1 |
| Command | | COMMAND_CLASS_CONFIGURATION V1 |
| Supported | | COMMAND_CLASS_SWITCH_ALL V1 |
| Report | | COMMAND_CLASS_CLOCK V1 |
| Frame | | COMMAND_CLASS_METER V3 |
| | | COMMAND_CLASS_ASSOCIATION_GRP_INFO V1 |
| | | COMMAND_CLASS_ASSOCIATION V2 |
| | | COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2 |
| | | COMMAND_CLASS_POWERLEVEL V1 |

2. Technical Specifications

Model number: ZW096

Operating distance: Up to 500 feet/150 meters outdoors.

Input: 120V~, 60Hz. (USA Version)

230V~, 50Hz. (EU, AU, CN Version)

230V~, 60Hz. (BR version)

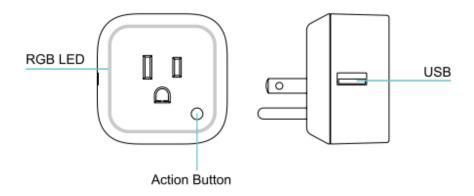
Output: 120V~, 60Hz, Max 15A Resistor load. (USA Version)

230V~, 50Hz, Max 13A Resistor load. (EU Version) 230V~, 50Hz, Max 10A Resistor load. (CN Version) 230V~, 50Hz, Max 10A Resistor load. (AU Version) 230V~, 60Hz, Max 10A Resistor load. (BR Version)

Relative humidity: 8% to 80%.

3. Familiarize yourself with your Smart Switch

3.1 Interface



4. All functions of each trigger

4.1 Function of Action Button

| Trigger | Description |
|-------------|---|
| | |
| Short press | 1. Send non-security Node Info frame. |
| one time | 2. Add Smart Switch into an existing z-wave network: |
| | 1. Insert the Smart Switch to power socket, The purple 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 inclusion success, Smart Switch LED will keep turning on. Otherwise, the LED will |
| | still blink slowly, in which you need to repeat the process from step 2. |
| | 3. Remove Smart Switch from an existing z-wave network: |
| | 1. Insert the Smart Switch to power socket, The Smart Switch LED will follow the status |
| | (on/off) of its load' power level. |
| | 2. Let the primary controller of existing Z-Wave network into remove mode (If you don't |
| | know how to do this, refer to its manual). |
| | 3. Press the Action button. |
| | 4. If the remove success, Smart Switch LED will blink slowly. If Smart Switch LED still follows |
| | that of load status, please repeat the process from step 2. |

| Short press 2 | 1. Send Security Node Info frame. | | | |
|----------------|---|--|--|--|
| times | 2. Add Smart Switch into an existing z-wave network: | | | |
| | 1. Insert the Smart Switch to power socket, The purple 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 inclusion success, Smart Switch LED will keep turning on. Otherwise, the LED will | | | |
| | still blink slowly, in which you need to repeat the process from step 2. | | | |
| | 3. Remove Smart Switch from an existing z-wave network: | | | |
| | 1. Insert the Smart Switch to power socket, The Smart Switch LED will follow the status | | | |
| | (on/off) of its load' power level. | | | |
| | 2. Let the primary controller of existing Z-Wave network into remove mode (If you don't | | | |
| | know how to do this, refer to its manual). | | | |
| | 3. Press the Action button. | | | |
| | 4. If the remove success, Smart Switch LED will blink slowly. If Smart Switch LED still follows | | | |
| | that of load status, please repeat the process from step 2. | | | |
| Press and hold | Reset Smart Switch to factory Default: | | | |
| 20 seconds | 1. Make sure the Smart Switch has been connected to the power supply. | | | |
| | 2. Press and hold the Z-wave 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 purple LED will be on for 2 seconds, it indicates reset success, | | | |
| | otherwise please repeat step 2. | | | |
| | Note: | | | |
| | 1, This procedure should only be used when the primary controller is inoperable. | | | |
| | 2, Reset Smart Switch to factory default settings will: sets the Smart Switch to not in Z- | | | |
| | Wave network state; delete the Association setting, power measure value, Scene | | | |
| | Configuration Settings and restore the Configuration setting to the default. | | | |

4.2 RGB LED indication when Smart Switch is in Energy Mode

| RGB | RGB indication | Status | | |
|---------|---|--|--|--|
| RGB LED | Purple color (10%) | Output load is turned off. | | |
| | Green | Output load is in small wattage range. US version, the range of load wattage is [0W, 800W) AU version, the range of load wattage is [0W, 1000W) | | |
| | Yellow | Output load is in big wattage range. US version , the range of load wattage is [800W, 1500W) All version , the range of load wattage is [1000W, 2000W) | | |
| | | AU version, the range of load wattage is [1000W, 2000W) EU version, the range of load wattage is [1500W, 3000W) | | |
| | Output load is in warning wattage range. US version, the range of load wattage is [1500W, ∞) AU version, the range of load wattage is [2000W, ∞) EU version, the range of load wattage is [3000W, ∞) | | | |

4.3 RGB LED indication when Smart Switch is in Wireless Power level Test Mode

| RGB | RGB indication | Status |
|---------|--|--|
| RGB LED | Blue LED fast blink | Enter into the wireless power level test mode |
| | Green LED is switched to ON state for 2 seconds | wireless power level is good |
| | Yellow LED is switched to ON state for 2 seconds | wireless power level is acceptable but latency can occur |
| | Red LED is switched to ON state for 2 seconds | wireless power level is insufficient |

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

The Smart Switch supports 2 association groups and maximum 5 nodes can be added into each group.

| Group Identifier | Nodes | Send Mode | Send commands |
|---------------------|-------|-------------|---|
| Group 1 | 0 | N/A | N/A |
| | 1 | Single Cast | When the state of Smart Switch (turn on/off the load) is chan |
| | [2,5] | | ged: 1, Set Configuration parameter 80 to 0: Reserved (Default). 2, Set Configuration parameter 80 to 1: Send Hail CC. 3. Set Configuration parameter 80 to 2: Send the Basic Report. |
| Group 2 | 0 | N/A | N/A |
| | [1,5] | Single Cast | Forward the Basic Set, Switch Binary Set to associated nodes in Group 2 when the Smart Switch receives the Basic Set, Switch Binary Set commands from main controller. |

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: Retransmit

5.6 Manufacturer Specific Report

| ore management epochic neport | | | | |
|-------------------------------|--|--|--|--|
| Parameter | Value | | | |
| Manufacturer ID 1 | US/EU/AU=0x00 CN=0x01 | | | |
| Manufacturer ID 2 | US/EU/AU=0x86 CN=0x6A | | | |
| Product Type ID 1 | EU=0x00, US=0x01, AU=0x02 CN=0x1D (29) | | | |
| Product Type ID 2 | 0x03 | | | |
| Product ID 1 | 0x00 | | | |
| Product ID 2 | 0x60 (96) | | | |

5.7 Configuration Set Command Class

| | | iiiiiiaiia cias | <u> </u> | | | | | |
|---------|---|-----------------|------------|------------|--------|---|---|--|
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | |
| | Command Class = COMMAND_CLASS_CONFIGURATION | | | | | | | |
| | | C | ommand = C | ONFIGURATI | ON_SET | | | |
| | | | | | | | | |
| | | | Parameter | Number | | | | |
| | | | | | | | | |
| Default | 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 overrun (US: 15.5A, other country: 16.2A) and the time more than 2 minutes (0=disabled, 1=enabled). | 0 | 1 |
| 0x14 (20) | Configure the output load status after re-power on (0=last status, 1=always on, 2=always off) | 0 | 1 |
| 0x21 (33) | Set the RGB LED color value for testing. Value1: Reserved Value2: Red value Value3: Green value Value4: Blue value | - | 4 |
| 0x50 (80) | Enable to send notifications to associated devices (Group 1) when the state of Micro Switch's load changed (0=nothing, 1=hail CC, 2=basic CC report). | 0 | 1 |

| 0x51 (81) | Configure the state of LED when it is in 3 modes below: 0= The LED will follow the status (on/off) of its load (Energy mode). 1= When the state of Switch's load changed, The LED will follow the status (on/off) of its load, but the red LED will turn off after 5 seconds if there is no any switch action (momentary indicate mode). 2= Night light mode. | 0 | 1 |
|------------|--|---|---|
| 0x53 (83) | Configure the RGB value when it is in Night light mode. Value1: Red color value Value2: Green color value Value3: Blue color value | Value1=0xDD Value2=0xA0 Value3=0xDD | 3 |
| 0x54 (84) | Configure the brightness level of LED indication (0%-100%) | 50 | 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). | 25 (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). | 5 (%) | 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 02 58 | 4 |
| 0x70 (112) | The time interval of sending Report group 2 (Valid values 0x01-0x7FFFFFFF). | 0x00 00 02 58 | 4 |
| 0x71 (113) | The time interval of sending Report group 3 (Valid values 0x01-0x7FFFFFFF). | 0x00 00 02 58 | 4 |
| 0xC8 (200) | Partner ID (0= Aeon Labs Standard Product, 1= others). | 0 | 1 |
| 0xFC (252) | Enable/disable Configuration Locked (0 = disable, 1 = enable). | 0 | 1 |
| 0xFE (254) | Device Tag. | 0 | 2 |
| 0xFF (255) | Reset configuration set up to default setting. | N/A | 1 |

Configuration Values for parameter 101-103:

| - Buration talace to parameter 202 2001 | | | | | | | | | |
|---|----------|---|---|---|---|---|---|---|--|
| | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | |
| configuration | Reserved | | | | | | | | |
| Value 1(MSB) | | | | | | | | | |

| 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 REPOR T (for watt) at the group time interval | Auto send Meter REPORT (for current) at the group time interval | Auto send Meter REPOR T (for voltage at the group time interval |

Example:

- a. Automatically report Meter CC (Watts) to node "1" every 12 minutes
- 1. Enable sending Meter CC (Watts) automatically in report group 1

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

2. Set the interval of sending Meter CC (Watts) in report group 1

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

3. Associate to node "1"

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

b. Set default values

ZW_SendData(0x70, 0x04, 0x255,0x01,0x00);