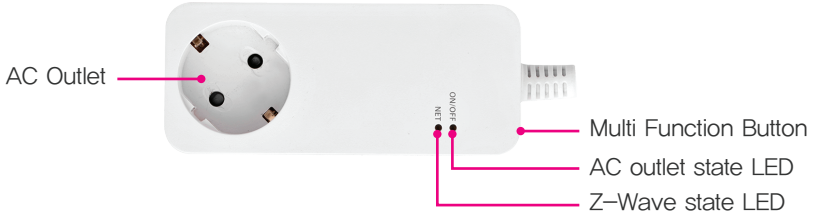


The name of each part



Functional Instruction

1. AC voltage measurement (V, A, Watt, PF)
2. Z-Wave network ADD and remove use of Fn Switch, AC outlet On/Off

On/Off LED Display

1. Green LED : AC Outlet On
2. Red LED : AC Outlet Off

NET LED Display

1. Green LED On: Included in Z-Wave Network
2. Green/Red LED Off: Excluded from Z-Wave Network
3. Green LED blinking: Start to include in the Z-Wave network
4. Red LED blinking: Excluded from Z-Wave network
5. Green LED blinking 10times: Reset the network information

Multi Function Button

1. Z-Wave network Inclusion and Exclusion
 - Inclusion / Exclusion
 1. Press Fn switch 3 times in a row to include the device in Z-Wave network.
 2. Press Fn switch 3 times in a row again to exclude the device from Z-Wave network.
2. Reset
 - Use this procedure only in the event that the network primary controller is missing or otherwise inoperable. Press Fn switch over 10~15 sec to reset network connection information.
3. AC Outlet On/Off
 - Press Fn switch 1 second to On/Off Outlet Relay

Safety Precaution

1. Do not disassemble, repair and refurbish.
2. Do not touch the device with wet hand.

Certification

This product 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.

Node Info List

Command Class	Version
COMMAND_CLASS_ZWAVEPLUS_INFO	ZWAVEPLUS_INFO_VERSION_V2
COMMAND_CLASS_VERSION	VERSION_VERSION_V2
COMMAND_CLASS_MANUFACTURER_SPECIFIC	MANUFACTURER_SPECIFIC_VERSION_V2
COMMAND_CLASS_DEVICE_RESET_LOCALLY	DEVICE_RESET_LOCALLY_VERSION_V1
COMMAND_CLASS_POWERLEVEL	POWERLEVEL_VERSION_V1
COMMAND_CLASS_ASSOCIATION	ASSOCIATION_VERSION_V2
COMMAND_CLASS_ASSOCIATION_GRP_INFO	ASSOCIATION_GRP_INFO_VERSION_V2
COMMAND_CLASS_BASIC	BASIC_VERSION_V1
COMMAND_CLASS_SWITCH_BINARY	SWITCH_BINARY_VERSION_V1
COMMAND_CLASS_METER	METER_VERSION_V3
COMMAND_CLASS_CRC16_ENCAP	CRC_16_ENCAP_VERSION_V1
COMMAND_CLASS_CONFIGURATION	CONFIGURATION_VERSION_V1
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2	FIRMWARE_UPDATE_MD_VERSION_V2

Association

1. Type

- A. Role Type : Always On Slave
- B. Device Type : Switch On/Off
 - Generic : GENERIC_TYPE_SWITCH_BINARY
 - Specific : SPECIFIC_TYPE_POWER_SWITCH_BINARY
 - Icon type : ICON_TYPE_GENERIC_ON_OFF_POWER_SWITCH
 - User Icon type : ICON_TYPE_SPECIFIC_ON_OFF_POWER_SWITCH_PLUGIN

2. Group

- A. Group1 - Lifeline
- B. Group2 - Notice button status with switch binary report.
- C. Group3 - Notice AC power status with meter report.

Configuration Command Class Parameter

Parameter	Function	Size	Default	Description
2	AMRC	1	0x02	Set the Meter data notice
3	AKRC	1	0x01	Set the Button Status notice
91	GMRTL_W	2	50	Group report trigger level (Watt)
92	GMRTL_kWh	2	50	Group report trigger level (kWh)
101	GRCCS	4	0x0000	Group report setting
111	GRIC	4	720	Group report time setting
255	Reset	1	0xFF	Initialize Configuration parameter

A. Parameter 2

1. Automatically meter report control (AMRC) is report mode setting of the Meter data.

	7	6	5	4	3	2	1	0
Configuration Value 1								AMRC

AMRC		Automatically meter report control
MSB	LSB	
0	0	Deactivate the Meter data report
0	1	Trigger level event mode
1	0	Time Interval Mode

AMRC (00b) Deactivate the meter report

AMRC (01b) In case Parameter 91~92 is bigger than setting value, report the event.
Report interval is 31 seconds after trigger.

AMRC (10b) Automatic report by the set interval in the Parameter 111.

B. Parameter 3

1. Automatically key report control (AKRC) is report mode setting of the Key data.

	7	6	5	4	3	2	1	0
Configuration Value 1								AKRC

AKRC		Automatically key report control
MSB	LSB	
0	0	Deactivate the button activation report
0	1	Button Activation report

C. Parameter 91~92 (0x5B~0x5C)

1. Trigger value setting (0~65535) for Meter report of Parameter2.

	7	6	5	4	3	2	1	0
Configuration Value 1	Trigger value (MSB)							
Configuration Value 2	Trigger value (LSB)							

Parameter 91	Group1 Watt Trigger level value
Parameter 92	Group1 kWh Trigger level value

D. Parameter 101 (0x65) (GRCCS - Group Report Command Class Setup)

1. Report setting for Group

	7	6	5	4	3	2	1	0
Configuration Value 1	Reserved							
Configuration Value 2	Reserved							
Configuration Value 3	Reserved							CRC
Configuration Value 4	MRSS							

CRC Group report crc16 enable/disable

CRC	Group report CRC16
0x00	Group report CRC16 Disable
0x01	Group report CRC16 Enable

MRSS Select Scale of Meter report.

MRSS	Meter Report Scale Select
0x00	Meter report command scale (kWh)
0x02	Meter report command scale (Watt)

E. Parameter 111 (0x6F)

1. Interval time setting for (60~65535 second)Report group

	7	6	5	4	3	2	1	0
Configuration Value 1	Reserved							
Configuration Value 2	Reserved							
Configuration Value 3	Interval value (MSB)							
Configuration Value 4	Interval value (LSB)							

F. Parameter 255

1. Initialize Configuration parameter

	7	6	5	4	3	2	1	0
Configuration Value 1	Default parameter number							

Parameter num	Description
2	Initialize Parameter 2
3	Initialize Parameter 3
91	Initialize Parameter 91
92	Initialize Parameter 92
101	Initialize Parameter 101
111	Initialize Parameter 111
255	Reset to the default full parameter