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HOGAR 2Node Smart Module Series User Manual

2Node Smart Module Series

**2 NODE
SMART MODULE SERIES**

**WELCOME TO
THE WORLD OF SMART**

Smart IoT Solutions for
Smart Spaces. Thank you for trusting us with your space &
choosing the 2 Node Module.

This manual is designed to help you install your 2 Node
Module in an easy and hassle-free manner. Please follow
the manual and experience the safety and comfort of your
very own, personal smart space.

USAGE NOTICE

1.1. WARNINGS AND CONSIDERATIONS:

Caution symbols highlighted across the manual represent the following:
Indicates highlighted precautions/warnings that must be
followed to prevent any serious problems.
Indicates the instructions to be followed during the
installation.
Indicates suggestions and tips.

**Please follow the notices to ensure your safety as well as to
prevent property loss.**
Turn OFF the electrical power before installing or servicing
this product. Improper use or installation can cause
SERIOUS INJURY or LOSS/DAMAGE OF PROPERTY and
can also be FATAL.
Use a circuit breaker to protect this device.
Refer to the diagram presented in the manual for
installations. Improper connections may be dangerous and
can cause injuries.

Install this device by following all the national and local
electrical codes.
Using this product in any manner other than how it is
referred to in this document voids your warranty.
Further, Company is NOT liable for any damage
incurred with the misuse of the product.
DO NOT use an electric screwdriver to install this device,
doing that might over-tighten the screws and strip them
which may interfere with the proper switch operation.
This is an electronic device with complex components.
Handle and install with care!
If you are not sure about any part of these instructions,
please consult a to perform the
installation process.
Please take into consideration the following as the range
and performance of the wireless control systems are highly
dependent on them:
– Distance between the devices.
– The layout of a home.
– Walls separating the devices.
– Electrical equipment located near the devices.

1.2. PRECAUTIONS

Ensure the below DOs & DON'Ts are adhered to enjoy a seamless
product experience:
DOs:
– Locate the antenna far from the metal elements.
DON'Ts:
– DON'T connect loads more than the recommended
– DON'T over tighten the screws and strip them.
– DON'T paint the product.
– DON'T use abrasive cleaners, waxes, or solvents for cleaning the product.
– DON'T operate the product under the following conditions:
– Sweltering hot, cold or humid environment.
– Areas that are open to excessive dust and dirt.

– Close to any device that produces strong magnetic
– Areas where the device may be exposed to direct sunlight

PRODUCT DETAILS
2.1. DESCRIPTION

The Switch based on Z-WaveTM Slave library of V7.15.04. This Switch integrated Z-Wave communication module to connect with Z-Wave gateway. The Switch 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.
The Switch is a security Z-Wave device (S2), so a security enabled controller is needed for take full advantage of all functionally for the Switch.

2.2. FEATURES

– The Switch Support SmartStart.
– Manual or Z-Wave on/off control of 2 electrical loads up to 5A.
– Add Z-Wave to two wall switches with a single device.
– Installs behind your existing wall switch (single pole or 3-way).
– 700 series Z-Wave chip for better range and faster control.
– Scene control: trigger actions with multi-tap (select hubs only).
– Remembers and restores on/off status after power failure.
– Built-in Z-Wave timer functionality and signal repeater.
– Works with LED and incandescent bulbs.
– SmartStart and S2 Security for a safer network.

2.3. TECHNICAL SPECIFICATIONS

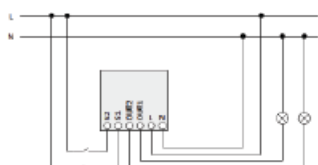| Model Number	Z-PRL2-V01
Z-Wave Signal Frequency	865.2 MHz
Range	Up to 300 feet line of sight
Power	100-240V~,50/60Hz
Maximum Load	100W LED bulbs, 500W Capacitive Resistance 5A resistive per relay
Operating Temperature	32-104° F (0-40° C)
Operating Humidity	Up to 85% non-condensing

2.4 Z-WAVE SPECIFICATIONS

SDK Version	7.15.04
SDK Library	libZWaveSlave
Explorer Frame Support	Yes
Routing	Yes
SmartStart	Yes
Device Type	Binary Switch
Basic Device Class	BASIC_TYPE_ROUTING_SLAVE
Generic Device Class	GENERIC_TYPE_SWITCH_BINARY
Specific Device Class	SPECIFIC_TYPE_NOT_USED
Role Type	Always On Slave (AOS)

2.5 FAMILIARIZE YOURSELF WITH SWITCH

2.6 INSTALLATION

2.7 SECURITY AND NON-SECURITY FEATURES

– This device is a security enabled Z-Wave PlusTM product that is
able to use encrypted Z-Wave Plus messages to communicate to
other security enabled Z-Wave Plus products.
– When a node includes into a S2 Z-Wave network, the node supports
S2 unauthenticated class, S2 authenticated and so do the supported CCs.

2.8 SUPPORTED SECURITY LEVELS

– SECURITY_KEY_S2_AUTHENTICATED_BIT
– SECURITY_KEY_S2_UNAUTHENTICATED_BIT

2.9 COMMANDS LIST

Command Classes	Version	Required Security Class
COMMAND_CLASS_SUPERVISION_V1	1	None
COMMAND_CLASS_APPLICATION_STATUS_V1	1	None
COMMAND_CLASS_BASIC_V2	2	Highest granted Security Class
COMMAND_CLASS_SWITCH_BINARY_V2	2	Highest granted Security Class
COMMAND_CLASS_CONFIGURATION_V4	4	Highest granted Security Class
COMMAND_CLASS_ASSOCIATION_V2	2	Highest granted Security Class
COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3	3	Highest granted Security Class
COMMAND_CLASS_VERSION_V3	3	Highest granted Security Class
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2	2	Highest granted Security Class
COMMAND_CLASS_DEVICE_RESET_LOCALLY_V1	1	Highest granted Security Class
COMMAND_CLASS_POWERLEVEL_V1	1	Highest granted Security Class
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V5	5	Highest granted Security Class
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3	3	Highest granted Security Class

2.11 SECURITY AND NON-SECURITY FEATURES

Command Classes	Version	Required Security Class
COMMAND_CLASS_CENTRAL_SCENE_V3	3	None
COMMAND_CLASS_MULTI_CHANNEL_V4	4	None
COMMAND_CLASS_INDICATOR_V3	3	Highest granted Security Class
ENDPOINT 1/2		
COMMAND_CLASS_ZWAVEPLUS_INFO_V2	2	Nones
COMMAND_CLASS_SUPERVISION_V1	1	None
COMMAND_CLASS_SECURITY_2_V1	1	None
COMMAND_CLASS_SWITCH_BINARY_V2	2	Highest granted Security Class
COMMAND_CLASS_ASSOCIATION_V2	2	Highest granted Security Class
COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3	3	Highest granted Security Class
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3	3	Highest granted Security Class

2.11 ALL FUNCTIONS OF EACH TRIGGER

– 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.
– Add the Switch into the Z-Wave network via SmartStart (SmartStart=nclusion):
a. Add Switch DSK into the primary controller SmartStart Provisioning
List (If you don't know how to do this, refer to its manual, DSK usually
print on the main body).
b. Remove the battery from the Switch. A few seconds later, reinsert
battery in the DUT.
c. The Switch will send "Z-Wave protocol Command Class" frame to
start SmartStart Inclusion.
– LED will blink green during the inclusion, and then solid green for
2 seconds to indicate that the inclusion is successful, otherwise the
LED will solid red for 2 seconds in which you need to repeat the
process form step b

POWER ON

In the network:
LED Following load state.
Not in the network:
LED will keeps green slow blink and start SmartStart.

5.3 Short press Z-Wave Button three times
Add the Switch into the Z-Wave network (Manual Inclusion):
a. Power on your Switch, set your Z-Wave controller into add/inclusion mode.
b. Short press Z-Wave Button three times.
c. LED will fast blink green during the inclusion, and then solid green
for 2 seconds to indicate the inclusion is successful, otherwise the
LED will solid red for 2 seconds in which you need to repeat the
process form step a

Remove Switch from a Z-Wave network (Manual Exclusion):
a. Power on your Switch, and let the Z-Wave primary controller into
remove/exclusion mode.
b. Short press Z-Wave Button three times.
c. LED will fast blink green during the exclusion, and then solid green
for 2 seconds to indicate that the exclusion is successful, otherwise
the LED will solid red for 2 seconds in which you need to repeat the
process form step a.

5.4 Reset Switch to factory default
Click Z-Wave button 2 times quickly, and hold for at least 15 seconds
> LED start blinking quickly once tapped twice, then after 15s
confirmed reset with 3 seconds. The Switch will reset itself to factory
default by sending a "Device Reset Locally Notification" to gateway
when the button is released.
Note: Please use this procedure only when the network primary
controller is missing or otherwise inoperable.

Warranty
We offer an Exclusive 18-Month Warranty on any product that
covers defects in materials and quality under normal use of the
Product. The Terms and Conditions of this 1.5 YEARS LIMITED
WARRANTY can be viewed on www.hogarcontrols.com or scan the
QR code:

CONGRATULATIONS
You've successfully installed your 2 Node Module. Now you
can experience seamless control of your 2 Node Module
with your Pro App.
Add more to your home from our range of smart home
automation solutions and live the smart life.

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Documents / Resources

	HOGAR 2Node Smart Module Series [pdf] User Manual 2Node Smart Module Series, 2Node, Smart Module Series, Module Series, Series

References

- **User Manual**