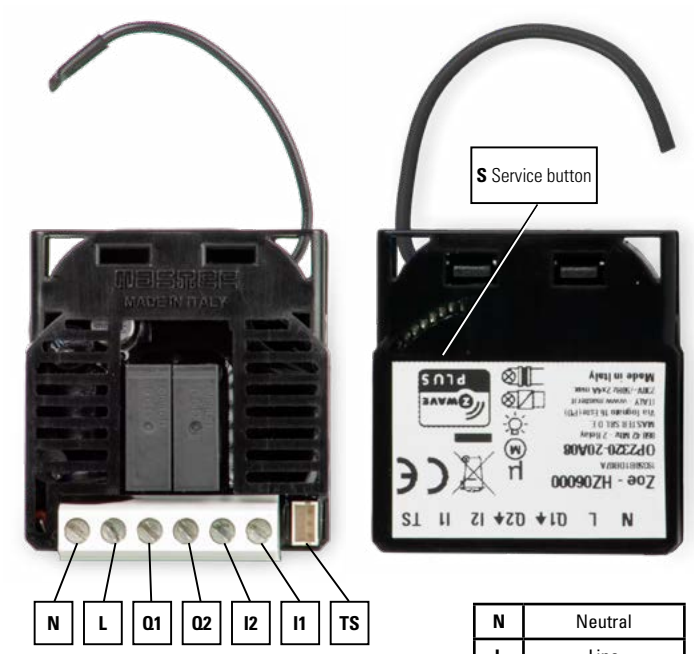
AUTOMATION



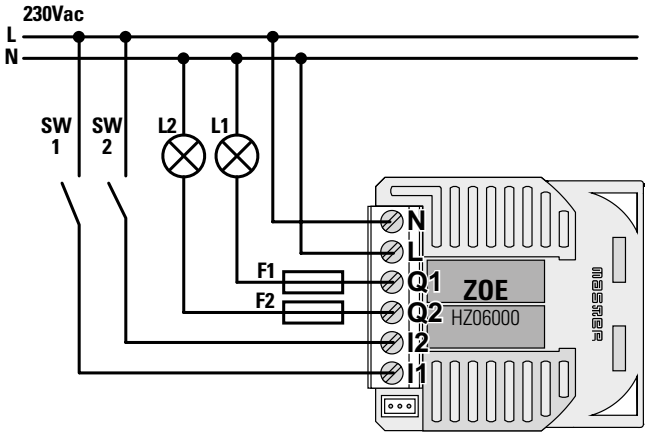
ZOE

Installation manual



N	Neutral
L	Line
Q1	Output 1
Q2	Output 2
I2	Input 2
I1	Input 1
TS	TS
S	Service button

ZOE connection diagram



TECHNICAL SPECIFICATIONS

Dimensions: 42x45x18mm
Power supply: 110-240Vac, 50/60Hz
Connector functions: L: Line lead, N: Neutral lead, Q1: 1st channel Output, Q2: 2nd channel Output, In2: Terminal for 2nd switch, In1: Terminal for 1st switch, Ts: (future use)
868.4Mhz Z-Wave communication
Wireless range up to 30m line of sight (depending on terrain and building structure).
1 service push button
Power measurement accuracy P=0-200W, +/-2W P>200W, +/-3%
Operation temperature: -10 ~ +40°C (14 ~ 104°F)
Supported loads:

- Resistive loads: max 4A/channel.
- Inductive loads (motors): depends on Cosφ (if Cosφ = 0.4, max 2A/channel). RC snubber circuit is recommended.
- Electronic loads:
  - LEDs: max 0.5A/channel.
  - Electronic Power Supply: 2.4A/channel.
  - *for CFLs and other loads, please contact support.*

SUPPORTED FUNCTIONS

Turn ON/OFF Device 1, 2 or both devices together, Watt measurement mevice 1, 2 or both devices together, kWh Measurement Device 1, 2 or both together, Automatically turn ON/OFF Device 1, 2 or both together, Associations, Z-Wave Repeater, Auto-inclusion.

PRODUCT OVERVIEW

Zoe is a line-powered Z-Wave interface for 2 loads (OUT) and 2 push buttons/switches (IN). Compatible with any Vesta board HM03000 or HM02000+HA40000 [Vesta2+Z-Clavis]. Supports protected mode (Z-Wave network security mode) with AES-128 encryption. Advanced micro-processor control. Works with various types of inputs (switches, pushbuttons, two-way switches).
To be installed in wall switch boxes of dimensions allowing for installation, conforming to provisions of applicable regulations.
Zoe can work as stand-alone device, and can be connected to a Z-Wave network.

WARNINGS

Danger of electrocution! Installation of this device requires a great degree of skill and may be performed only by a licensed and qualified electrician. Please keep in mind that even when the device is turned off, voltage may still be present in the device's terminals.
Do not connect the device to loads exceeding the recommended values. Connect the device exactly as shown in the provided diagrams. Improper wiring may be dangerous and result in equipment damage. Electrical installation must be protected by directly associated over-current protection fuse 4A, gG or Time lag T, rated breaking capacity 1500A (ESKA 522.723) must be used according to wiring diagram to achieve appropriate overload protection of the device. The fuse must be installed in fuse holder type like Adels-Contact Si/1DS according to the standard IEC60669-2-1.
The service (S) button must NOT be used when the device is connected to a 110-240V power supply.

INSTALLATION

Step 1 – Turn OFF the fuse

- To prevent electrical shock and/or equipment damage, disconnect electrical power at the main fuse or circuit breaker before installation and maintenance.
- Be aware that even if the circuit breaker is off, some voltage may remain in the wires. Before proceeding with the installation, be sure no voltage is present in the wiring.
- Take extra precautions to avoid accidentally turning the device on during installation.

Step 2 – Installing the device

• Connect the device exactly according to the diagram on the left.
Notes:

- *In Lapis/Sidera remember to set Parameter1=0 if I1 is a push button. Parameter1=1 (default) if I1 is a switch. The same for Parameter2*
- *Place the antenna as far as possible from metal elements as they may cause signal interference. Do not shorten the antenna. The device's antenna should be as upright as possible. This ensures the device's operational range is maximized (up to 30 mt line of sight)*

Step 3 – Close the distribution box
Step 4 – Turn ON the fuse and add the device to your Z-Wave network

1. Use Lapis/Sidera instructions to enable add/remove mode on HM03000.
2. **If you want AUTOMATICALLY ADD THE DEVICE TO A Z-WAVE NETWORK (AUTO INCLUSION)** Power on Zoe and Auto-inclusion will be initiated within 5 seconds and will be available for 2 minutes.
   If you want MANUALLY ADD THE DEVICE TO A Z-WAVE NETWORK (MANUAL INCLUSION) Power on Zoe and push on the I1 push button 3 times in 3 seconds (or Toggle the I1 switch 6 times in 3 seconds) OR If the device is powered by 24 V SELV supply, press and hold the S (Service) button between 2 and 6 seconds.
3. Use Lapis/Sidera instructions to set-up the new device.

Step 5 – The Installation is now complete.

OVERLOAD

In case of load other than resistive, pay attention to the value of Cosφ and, if necessary, apply load lower than the rated load. Max current for Cosφ=0,4 is 3A at 250VAC. Max Power Limit is automatically set by a software. If max power is exceeded for more than 5 seconds, the output is turned off up to next restart of the module.

REMOVING THE DEVICE FROM A Z-WAVE NETWORK (EXCLUSION)

1. Make sure the device is within direct range of your Z-Wave gateway (hub)
2. Use Lapis/Sidera instructions to enable add/remove mode on HM03000.
3. Power on Zoe and push on the I1 push button 3 times in 3 seconds (or toggle the I1 switch 6 times in 3 seconds) OR if the device is powered by 24 V SELV supply, press and hold the S (Service) button between 2 and 6 seconds.
4. The device will be excluded from your network, but any custom configuration parameters will not be erased.

FACTORY RESET

1. Connect the device to the power supply
2. Within the first minute (60 seconds) the device is connected to the power supply, toggle the switch connected to the I1 terminal 5 times within 3 seconds (5 times change switch state) OR if the device is powered by 24 V SELV supply, press and hold the S (Service) button for more than 6 seconds.

By resetting the device, all custom parameters previously set on the device will return to their default values, and the node ID will be deleted. Use this reset procedure only when the main gateway (hub) is missing or otherwise inoperable.

ZOE

UNA AUTOMATION

Important Disclaimer: Z-Wave wireless communication is not always 100% reliable. This device should not be used in situations in which life and/or valuables are solely dependent on its functioning. If the device is not recognized by your gateway (hub) or shows up incorrectly, you may need to change the device type manually and make sure your gateway (hub) supports multi-channel devices. Contact us for help before returning the device: support@domologica.com

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. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal free of charge.

FCC COMPLIANCE STATEMENT: 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 NOTE: 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 in-stalled 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 receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.

Legal Notice This user manual is subject to change and improvement without notice. Master reserves all rights to revise and update all documentation without any obligation to notify any individual or entity.

Declaration of Conformity Zoe HZ06000 is in compliance with the essential requirements and other relevant provisions of the Low voltage (LVD) Directive (2014/35/EU), Electromagnetic Compatibility (EMC) Directive (2014/30/EU), Radio Equipment Directive (2014/53/EU), Directive RoHS 2 (2011/65/EU) and Directive ErP (2009/125/EC).

WEEE According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

Warranty. Master Divisione Elettrica S.r.l. (MASTER) 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. MASTER's sole obligation under the foregoing warranty is, at MASTER's 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 MASTER's service representative and under MASTER'S 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. MASTER 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. Master 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 ensure the shipment or accept the risk of loss or damage during such shipment and transportation. MASTER will ship the repaired or replacement products to Customer freight prepaid. Customer shall indemnify, defend, and hold MASTER and MASTER's 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 MASTER's manufacturing processes

In no event shall MASTER be liable for any indirect, incidental, punitive, special or consequential damages, or damages for loss of profits, revenue, or use incurred by customer or any third party, whether in an action in contract, or tort, or otherwise even if advised of the possibility of such damages. MASTER's liability and customer's exclusive remedy for any cause of action arising in connection with this agreement or the sale or use of the products, whether based on negligence, strict liability, breach of warranty, breach of agreement, or equitable principles, is expressly limited to, at MASTER's option, replacement of, or repayment of the purchase price for that portion of products with respect to which damages are claimed. All claims of any kind arising in connection with this agreement or the sale or use of products shall be deemed waived unless made in writing within thirty (30) days from MASTER's delivery, or the date fixed for delivery in the event of nondelivery.

The indemnity and warranty in above are exclusive and instead of all other indemnities or warranties, whether express or implied, including the implied warranties of merchantability and fitness for a particular purpose.

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 equipment. Store indoors when not in use. Suitable for dry locations. Do not immerse in water. Not for use where directly exposed to water.

Specifications may be subject to change without prior notice.

RoHS COMPLIANT

DOWNLOAD MANUALS AND DIAGRAMS ON:
https://**www.master.it/products/HZ06000**

Z-WAVE PLUS

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