



A510089 META PWM DIMMER ZRX





- 2-channel dimmer with dual-Radio EN
 - 2-Kanal-Dimmer mit dual Funk DE
- Variateur 2 canaux avec double radio **FR**
- Actuador de iluminación de 2 canales **ES** con radio dual

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EU declaration of conformity

CHERUBINI S.p.A. declares that the product is in conformity with the relevant Union harmonisation legislation: Directive 2014/53/EU, Directive 2011/65/EU.

The full text of the EU declaration of conformity is available upon request at the following website: www.cherubini.it.

Failure to comply with these instructions annuls CHERUBINI's responsibilities and guarantee.



The crossed-out wheelie bin symbol indicates that the product must be collected separately from other waste at the end of its useful life. Therefore, users should deliver this product to appropriate waste collection points or return it to their dealers at the end of its service life. See your local authority's regulations.

Adequate waste sorting for subsequent processing and environmentally compatible disposal helps to avoid possible negative effects on the environment and public health and promotes reuse and/or recycling of the materials used to make the equipment.

DEVICE DESCRIPTION

Meta PWM Dimmer ZRX is a PWM dimmer controllable through Z-Wave[™] protocol, for constant voltage LED loads, such as LED strips, halogen lights and constant voltage LED modules. Controlled devices may be powered by 12 or 24 VDC.

It is connected between a 12-24 VDC power supply and the constant voltage LED load. The maximum combined output current is 12 A and 6A maximum per each channel.

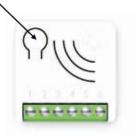
It operates in any Z-WaveTM network with other Z-WaveTM/Z-Wave PlusTM certified devices and controllers from any other manufacturer. As a constantly powered node, the device will act as repeater regardless of the vendor in order to increase the reliability of the network.

This device is a security enabled Z-Wave $Plus^{TM}$ product that is able to use encrypted Z-Wave $Plus^{TM}$ messages to communicate to other security enabled Z-Wave $Plus^{TM}$ products.

This device must be used in conjunction with a Security Enabled Z-Wave[™] Controller in order to fully utilize all implemented functions.

The device can also be controlled by Cherubini remote controls of SKIPPER - POP or GIRO series.

Integrated Button with LED indicator



Integrated Button

Power Supply

Output Input Switch 1 or 3 clicks to enter in Learn Mode
6 clicks to reset the system to manufacturer's settings
2 clicks to enter in setup mode

5, 6 – inputs

TECHNICAL SPECIFICATIONS

| Power supply | 12 - 24 VDC |
|-------------------------------|----------------------------|
| Maximum Load | 6A for each channel |
| System temperature limitation | 105 °C |
| Work temperature | From -10° to 40° C |
| Power consumption | < 260 mW in standby |
| | < 480 mW with working load |
| Radio frequency | 868,4 MHz |
| Protection system | S2 Security |
| Maximum distance | Up to 100 m outdoor |
| | Up to 40 m indoor |
| Dimensions | 37x37x17 mm |
| Actuator element | 2 Power Mosfet |
| Compliance | CE, RoHs |
| Electrical IP Rating | IP20 |

SAFETY INFORMATION



INFO: The device is designed to be installed in flush mounting junction boxes or close to the load to be controlled.



WARNING: The device must be installed by electricians qualified to intervene on electrical systems in compliance with safety requirements set out by the regulations in force.



DANGER: Any procedure requiring the use of the Integrated Button is related only to the installation phase and is to be considered a service procedure that must be performed by qualified personnel. This operation must be performed with all necessary precautions for operating in areas with a single level of insulation.



WARNING: Do not connect loads that exceed the maximum load permitted by the actuator element.



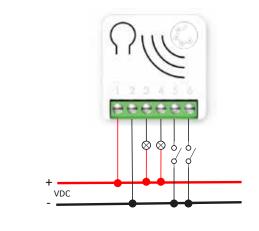
WARNING: All connections must be performed according to the electrical diagram provided below.



WARNING: The device must be installed in norm-compliant systems suitably protected from overloads and short circuits.

ELECTRICAL CONNECTIONS DIAGRAM

The device must be supplied by 12 or 24 VDC Power Supply. Connections must be done following the diagram below:



Power Supply

- 1 positive terminal (+)
- 2 negative terminal (-)

Output

ENGLISH

Input Switch

- 3 output 1
- 4 output 2
- 5 input 1
- 6 input 2

DEVICE INSTALLATION

- 1) Make sure the main switch is set to the OFF position
- 2) Connect the device based on the diagrams provided
- 3) Turn the main switch to the ON position
- 4) Include the device in the Z-Wave[™] network

TIP: The antenna must not be shortened, removed or modified. To ensure maximum efficiency, it must be installed as shown. Large size metal equipment near the antenna can negatively affect reception. Each device is a node in a mesh network. If there are metal obstacles, the obstacle can often be overcome with a further triangulation node.



LED STATUS INDICATOR

The system includes an RGB LED that shows the device's status during installation: Solid RED: the device is not included in any network Solid BLUE: the device is Offline setup mode 4 GREEN blinks then OFF: the device has been just added to a Z-Wave[™] network in S2 Authenticate Mode 4 BLUE blinks then OFF: the device has been just added to a Z-Wave[™] network in S2 Unauthenticated Mode 4 RED blinks then OFF: the device has been just added to a Z-Wave[™] network without security Sequence of GREEN-BLUE Learn Mode for inclusion Sequence of GREEN-BLUE Learn Mode for exclusion Rapid sequence of GREEN-BLUE-RED: the event on the input (external switch) is not valid

ADD/REMOVE THE DEVICE INTO A Z-WAVE[™] NETWORK (classic)

Standard Inclusion (add)

All META Serie 7 devices are compatible with all Z-WaveTM/Z-Wave PlusTM certified controllers. The devices support both the **Network Wide Inclusion** mechanism (which offers the ability to be included in a network, even if the device is not directly connected to the controller) and **Normal Inclusion**.

By default, the inclusion procedure starts in *Normal Inclusion* mode and after a short timeout the procedure continues in *Network Wide Inclusion* mode that lasts for about 20 Seconds.

Only a controller can add the device into the network. After activating the inclusion function by the controller, the device can be added by setting it in Learn Mode.

Solution
Solution<

Before including the device, the LED status indicator is solid RED. <u>The adding of a device is executed by activating the adding procedure in the inclusion section of the controller interface and then executing 1 or 3 click on the integrated button (the device is set in *Learn Mode*). As soon as the inclusion procedure initiates the LED indicator starts a sequence of GREEN-BLUE blinks. The device is included in the network when the LED status is OFF and the interview is completed.</u>

Standard exclusion (remove)

Only a controller can remove the device from the network. After activating the exclusion function by the controller, the device can be removed by setting it in *Learn Mode*.

The procedure of exclusion can be activated by **Removing** a node from the Z-Wave[™] network and <u>executing 1 or 3 click on the integrated button</u>; as soon as the exclusion initiates, the LED indicator starts a sequence of RED-BLUE blinks. The device is excluded from the network when the LED status indicator is solid RED and the App_status in the interface is OK.

ENGLISH

SMARTSTART INCLUSION

Z-Wave[™] SmartStart aims to shift the tasks related to inclusion of an end device into a Z-Wave[™] network away from the end device itself, and towards the more user-friendly interface of the gateway.

Z-Wave[™] SmartStart removes the need for initiating the end device to start inclusion. Inclusion is initiated automatically on power-ON and repeated at dynamic intervals for as long as the device is not included into a Z-Wave[™] network. As the new device announces itself on power-ON, the protocol will provide notifications, and the gateway can initiate the inclusion process in the background, without the need for user interaction or any interruption of normal operation. The SmartStart inclusion process only includes S2 authenticated devices.

META Serie 7 devices 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.

The SmartStart QR and the full DSK string code can be found on the back of the device. The PIN is the first group of 5 digits printed underlined. If you plan to use the DSK, it is important that you take a picture of the label and keep it in a safe place.



S2 SECURE INCLUSION

When adding META Serie 7 devices to a Z-Wave[™] network with a controller supporting Security 2 Authenticated (S2), the PIN code of the Z-Wave[™] Device Specific Key (DSK) is required. The unique DSK code is printed on the product label. The first five digits of the key are highlighted and underlined to help the user identify the PIN code.



SUPPORTED COMMAND CLASSES

| Command Class | Version | Non-Secure CC | Secure CC |
|-----------------------|---------|------------------|-----------|
| BASIC | 2 | | х |
| ZWAVEPLUS_INFO | 2 | х | |
| ASSOCIATION | 2 | | х |
| | 3 | | х |
| ASSOCIATION_GRP_INFO | 3 | | х |
| TRANSPORT_SERVICE | 2 | х | |
| VERSION | 3 | | х |
| MANUFACTURER_SPECIFIC | 2 | | х |
| DEVICE_RESET_LOCALLY | 1 | | х |
| INDICATOR | 3 | | х |
| POWERLEVEL | 1 | | х |
| SECURITY_2 | 1 | х | |
| SUPERVISION | 1 | х | |
| FIRMWARE_UPDATE_MD | 5 | | х |
| APPLICATION_STATUS | 1 | х | |
| CONFIGURATION_V4 | 4 | | х |
| SWITCH_MULTILEVEL | 4 | | х |
| CENTRAL_SCENE | 3 | | х |

Supporting Command Class Basic

The basic command classes are mapped into the Switch Binary Command Class.

| Basic Command received | Commando Mappato (Binary Switch) |
|------------------------|---|
| Basic Set (0xFF) | Switch Binary Set (0xFF) |
| Basic Set (0x00) | Switch Binary Set (0x00) |
| Basic GET | Basic Report 0x00 if the Binary Switch is in OFF state 0x00 Basic Report 0xFF if the Binary Switch is in ON state 0xFF |

Supporting Command Class Indicator

The device supports the Command Class Indicator V3 (ID 0x50). When the device receives an indicator set, the led blinks accordingly to the Indicator set received.

The color shown by the indicator will be: **RED**: if the device is included without Security **BLUE**: if the device is included in S2 Unauthenticated Mode **GREEN**: if the device is already included in S2 Authenticated Mode.

DEVICE CONTROL

META PWM Dimmer ZRX can turn ON/OFF and control the dimming level on two loads by using external switches, or from remote through a controller.

Controlling the device by External Switches

For the operation of the device within the Z-Wave[™] network and controlling the loads connected to the device, control actions are performed on the external switches.



The **CONTROL ACTIONS** are **EVENTS** executed on **EXTERNAL SWITCHES** connected to the terminals 5 and 6 of the device which can be *Clicks, Hold Down and Up.*

| Event | Type of switch | Actions on the switch | |
|----------------------------|------------------------------|--|--|
| Click | Momentary switch (button) | Press briefly & Release (when pressed it autonomously returns to the initial position) | |
| | Toggle Switch (bistabile) | Press & Release (a single click means one single flip of the switch) | |
| MultiClick= n click | Momentary switch | Sequence of consecutive n clicks | |
| | Toggle Switch | Sequence of consecutive ii clicks | |
| Hold Down | Momentary switch | Press longer than click. After a Hold Down always follows an UP event. | |
| Up | Momentary switch | Release. The event applies only if there has been a previous Hold Down event. | |

- Hold down to the external switch connected to terminal 5, shifts the dimming level upward for both outputs.
- Hold down to the external switch connected to terminal 6, shifts the dimming level downward for both outputs.
- 1 click on one of the external switches, toggles both the loads from OFF to the last recent non-zero level and vice versa.
- 2 clicks on one of the external switches, toggles both the loads to full ON level.

Since the device supports Central Scene Notification all the events described in the table will be notified with a Central Scene Notification Report to the Lifeline. The events that trigger a Central Scene Notification Report can be customized with the configuration parameter in the Central Scene Notification Parameter section.

Controlling the device by a Z-Wave[™] controller

The device can be controlled by any Z-WaveTM / Z-Wave PlusTM certified controller available in the market.

The following figure represents an example of a control panel interface showing how the device will appear once it is included into the Gateway.



ASSOCIATIONS

META PWM Dimmer ZRX can control other devices like other relays or dimmers. The device supports 2 association groups, each of which supports the association of up to 8 devices (nodes):

| Group ID | Group Name | N° max nodes | Description | Command sent |
|-------------|---------------|-----------------|--|---|
| 1 | Lifeline | 8 | Lifeline Group. Nodes belonging to this group will receive: notifications about device reset; chan- ges related to the relay and Indicator Status and the Central Scene Notifi- cation. | DEVICE_RESET_LOCALLY_ NOTIFICATION SWITCH_BINARY_REPORT CENTRAL_SCENE_ NOTIFICATION INDICATOR_REPORT |
| 2 | Follow-me | 8 | The state of the output (ON/OFF) will be propagated to the associated device. | BASIC_SET |



INFO: Association ensures direct transfer of control commands between devices and is performed without participation of the main controller.

TIMER MANAGEMENT

A timer can be set when switching On and/or Off. It is also possible to define which event will start the timer. (for example only the change on the output due to double clicks).

RESET TO THE FACTORY SETTINGS

The device can be reset to the original factory with 6 consecutive clicks on the integrated button.

After the reset is completed, the device will reboot and a RED solid led is showed. Please use this procedure only when the network primary controller is missing or otherwise inoperable.

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INFO: If the reset is performed while the device is still part of a network, it notifies the other devices that it has been removed (*Device Reset Locally Notification*).

FIRMWARE UPDATE

The system supports over-the-air firmware updates that do not require the device to be removed from its location. The firmware update can be activated from all certified controllers supporting version 2 of the Firmware Update function.



WARNING: The system will be rebooted at the end of the firmware update procedure. It is advisable to carry out the firmware update procedure only when necessary and following careful planning of the intervention.

OFFLINE SETUP MODE

The device has a unique feature that allows to configure some parameters without using any user interface. This feature enables the professional user to setup the main features of the device in the field even if the device is not included in a Z-Wave[™] Network. When the device will be included in the network all these configuration parameters will be maintained.

To enter in offline setup mode, operate 2 clicks on the integrated button.

When the device is in Offline setup mode the led becomes solid Blue and the following configurations are permitted:

| 1 click Sets the input type to activate/deactivate the switch. Equivalent to setting parameter No.1 to 2. | | | | | |
|--|---|--|--|--|--|
| 2 clicks | Set the actual dimming level as 1% dimming level. (Equivalent to set parameter n. 5 with actual dimming level). | | | | |
| 3 clicks Restore the default value of 1% for dimming level. (Equivalen reset the parameter n. 5). | | | | | |
| After receiving the conclusion of the conclusion | ommand the led blinks a number of times equal to the number of | | | | |
| 6 clicks | Exit from Offline setup mode and return to normal operation. | | | | |
| Hold down for 5 seconds Reset all configuration parameters to their default value return to normal operation. | | | | | |

After entering in Offline setup mode, the device returns to normal operation if no action on the switch is detected for more than 20 Seconds.

CONFIGURATIONS

Input Configuration

| | Parameter Number | Size | Parameter Name | Default Value | Description | | | |
|------|---------------------|---------------------------|-------------------|------------------|------------------------|--------|--|--|
| | 1 | 1 | IN_TYPE | 1 | Define the input type. | | | |
| | Parameters | Values | 5 | | Min: 1 | Max: 3 | | |
| I | Value | Descri | ption | | | | | |
| I S | 0 | No sw | No switch input | | | | | |
| NGLI | 1 | Momentary switch (button) | | | | | | |
| 07 | 2 | Toggle | switch | | | | | |
| ш | 3 | Double Button (up/down) | | | | | | |
| | | | | | | | | |

| Parameter Number | Size | Parameter Name | Default Value | Description | | |
|---------------------|------------------------|-------------------|------------------|------------------|------------------|--|
| 5 | 1 | MIN_LEVEL | 1 | Define the level | associate to 1%. | |
| Parameters | Parameters Values | | | Min: 1 | Max: 99 | |
| Value | Description | | | | | |
| 1-99 | Specific dimming level | | | | | |

| Parameter Number | Size | Parameter Name | Default Value | Description | | |
|---------------------|-------------------|-----------------------------------|------------------|--|----------|--|
| 10 | 1 | LOCAL_ ON_OFF | 1 | Define the time duration in second used for switch On/Off when the external button is pressed 1 or 2 times. | | |
| Parameters | Parameters Values | | | Min: 0 | Max: 120 | |
| Value | Description | | | | | |
| 0-120 | Specifi | Specific duration time in seconds | | | | |

| Parameter Number | Size | Parameter Name | Default Value | Description | |
|---------------------|---------|-------------------|------------------|---|----------|
| 11 | 1 | LOCAL_ DIMMING | 5 | Define the time duration in second used for dimming locally (Hold Down of external switch). | |
| Parameters | s Value | 5 | | Min: 0 | Max: 120 |
| Value | Descri | iption | | | |
| 0-120 | Specifi | c duration tim | e in seconds | 5 | |
| | | | | | |

| Value | Descr | iption | | | | | | |
|---------------------|-------------|---------------------|------------------|---|----------|----|--|--|
| 0-120 | Specifi | ic duration tim | e in seconds | 5 | | SН | | |
| | | | | | | | | |
| Parameter Number | Size | Parameter Name | Default Value | Description | | | | |
| 12 | 1 | NETWORK_ DIMMING | 2 | Define the time duration in seconds, used for dimming when a network com- mand is received without duration info. | | | | |
| Parameters | s Value | s | | Min: 0 | Max: 120 | | | |
| Value | Description | | | | | | | |
| 0-120 | Specifi | ic duration tim | e in seconds | 5 | |] | | |

Output Configuration:

| Parameter Number | Size | Parameter Name | Default Value | Description | | |
|---------------------|-----------------------------------|----------------------|------------------|---|----------|--|
| 15 | 1 | DIMMING_ ON_TIMER | 0 | Define the dimming duration in second used by the On timer. | | |
| Parameters Values | | | | Min: 0 | Max: 120 | |
| Value | Description | | | | | |
| 0-120 | Specific duration time in seconds | | | | | |

| Parameter Number | Size | Parameter Name | Default Value | Description | | |
|---------------------|-----------------------------------|-----------------------|------------------|---|--|--|
| 16 | 1 | DIMMING_ OFF_TIMER | 0 | Define the dimming duration in secor used by the Off timer. | | |
| Parameters Values | | | Min: 0 | Max: 120 | | |
| Value | Description | | | | | |
| 0-120 | Specific duration time in seconds | | | | | |

| | Parameter Number | Size | Parameter Name | Description | | escription |
|--------------------|--|----------------|-------------------|-------------|-----------------|----------------------|
| | 23 | 1 | STARTUP_ OUT | 100 | Define the outp | ut level on startup. |
| | Parameters Values | | | | Min: 0 | Max: 100 |
| | Value | Descr | ption | | | |
| | 0 | OFF | | | | |
| Η | 1-99 | Specific Level | | | | |
| 100 Previous level | | | | | | |
| N G L | Timer management It allows you to activate an ON and OFF timer independently. To activate the timers | | | | | |

you need to:

- 1) Define which event will start the timer (Parameter 30)
- 2) To set the Off timer define the time with parameter 31
- 3) To set the On timer define the time with parameter 32.

| Parameter Number | Size | Parameter Name | Default Value | D | escription | | |
|--|--|-------------------|------------------|---|------------|--|--|
| 30 | 1 | TIMER_ SETUP | 0 | Define which trigger events activate the timers when output status has changed. | | | |
| Parameters | Values | 5 | | Min: 0 | Max: 127 | | |
| Value | Descri | iption | | | | | |
| 0-120 | Disable | ed | | | | | |
| 1 | 1 click | | | | | | |
| 2 | 2 clicks | | | | | | |
| 4 | 3 clicks | | | | | | |
| 8 | Hold down | | | | | | |
| 16 | Up | | | | | | |
| 32 | Network (status change trigger by gateway or other devices in the Z-Wave™ network) | | | | | | |
| 64 | 64 System (based on the startup status, or other timer event) | | | | | | |
| If more than 1 event is supported, the value for the configuration parameter is the sum of the event values. For example: 1 click and 2 clicks -> Parameter value must be $1 + 2 = 3$ Default value: Disable $\rightarrow 0$ | | | | | | | |

| Parameter Number | Size | Parameter Name | Default Value | Description | | |
|---------------------|---|-------------------|------------------|---|-------------|--|
| 31 | 4 | OFF_ TIMEOUT | 0 | Time in tenth of seconds after which the output will be switched Off. | | |
| Parameters Values | | | | Min: 0 | Max: 360000 | |
| Value | Description | | | | | |
| 0-360000 | Specific time expressed in tenth of seconds for Status change | | | | | |

| Parameter Number | Size | Parameter Name | Default Value | Description | | |
|---------------------|---|-------------------|------------------|--|-------------|--|
| 32 | 4 | ON_ TIMEOUT | 0 | Time in tenth of seconds after which output will be switched On. | | |
| Parameters Values | | | | Min: 0 | Max: 360000 | |
| Value | Description | | | | | |
| 0-360000 | Specific time expressed in tenth of seconds for Status change | | | | | |

Central Scene management

| | Parameter Number | Size | Parameter Name | Default Value | Descri | ption | |
|--------|---|---------------------------------------|-------------------|------------------|--|---------|--|
| | 60 | 1 | SCENE_ SETUP | 31 | Define which event on a central scene notifi | 1 55 | |
| | Parameters | Values | S | | Min: 0 | Max: 31 | |
| | Value | Descri | iption | | | | |
| 0 None | | | | | | | |
| | | | | | | | |
| 0 T I | 2 | 2 2 clicks 4 3 clicks 8 Hold down | | | | | |
| z | 4 | | | | | | |
| Ш | 8 | | | | | | |
| | 16 | Up | | | | | |
| | If more than 1 event are supported, the value for the configuration parameter is the sum of the event values. For example: 1 click and 2 clicks -> Parameter value must be $1 + 2 = 3$ 1 click and 3 clicks -> Parameter value must be $1 + 4 = 5$ Default value: all event \rightarrow 31 | | | | | | |

ZRX VARIANT OF THE DEVICE

The section is valid ONLY for the ZRX variant of the device.

Association of a Cherubini remote control Skipper - Pop or Giro Series

| LEGEND OF THE SYMBOLS: | | | | |
|--------------------------|---|--|--|--|
| | rated n with ndicator Press button A Press buttons A and B at the same time | | | |
| Single BLUE Blink | Confirmation of sequence start recognition. | | | |
| Sequence of GREEN - BLUE | Confirmation of recognition of the Operation required. Duration of about 4 seconds, time within which the command confirmation must take place. | | | |
| 4 GREEN blinks | Confirmation that the requested operation was completed successfully. | | | |
| 4 RED blinks | The requested operation has not been carried out. | | | |
| 4 BLUE blinks | Confirmation that all remotes have been deleted. | | | |

Setting the first remote control

This operation can only be performed when the product is new, or after a total delete of the memory. Every time you connect the device to the power supply, you have 3 hours to store the first remote control. After this time, the ability to store the remote control is disabled. To reset the timer of the function you have to disconnect and reconnect the power supply to the device, or to activate the procedure of deleting all the remote controls as described below.

The operation can be performed in two ways:

- T1: First remote control to be set
 - 1) Setting through operations with the remote control



2) Setting through operations with both remote control and device.







2 sec

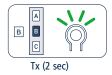
Setting additional remote controls

It is possible to set up to 15 remote controls.

Tn: Already programmed remote control Tx: Additional remote control







Remote control memory clearing

It is possible to delete singly all the memorized remote controls. When the last one is deleted the motor initial condition is restored. The same applies to single channels of a multichannel remote control: just select the channel before performing the sequence.

Tn: Remote control to be cleared

This sequence deletes the remote control from all associated receivers.



This sequence deletes the remote control from only one receiver.



Clearing all remote controls

Total clearing from the memory is carried out by holding down the button integrated in the device for 5 seconds as indicated below



Controlling the device from a Cherubini Remote Control

د -د The events on the buttons of the remote control allow the controlling of the load as indicated in the following table.

| | Button | Event | Result | |
|------|-------------|-----------|---|--|
| _ | | Click | Increase the dimming level on both | |
| LISH | B C | Hold Down | outputs. | |
| ENG | A | Click | Changing the load status | |
| | B B C | Hold Down | (from ON to OFF and vice versa). | |
| | A | Click | Decrease the dimming level on both outputs. | |
| | B C C | Hold Down | | |

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