Z-Wave Wall Controller

DA_VINCI_Z-WAVE: Wall Controller

Firmware Version 1.1

1. General Information about Z-Wave

1.1 Safe

Generally, radio systems build a direct link between the transmitter and the receiver. The radio signal is attenuated by every obstacle along its path (in the household e.g. wall, furniture etc). In the worst case the radio system ceases to function. The advantage of the intelligent Z-Wave system is the so-called routing function: All devices of Z-Wave not only act as transmitter or receiver but also simultaneously as “repeater”. Should a direct radio link between the transmitter and the receiver not be possible, communication will be established with the assistance of other devices.

1.2 Communicative

Z-Wave is a bidirectional radio system. This means that a signal is not just sent but also a feedback confirming the reception of the signal occurs automatically. The safety of transmission of the Z-Wave radio-bus-technology is comparable with that of a wire-linked bus system. It is likewise possible to determine the switching status by pushing a button: Has the cellar light been definitely switched off?

1.3 Trouble—free

Z-Wave transmits at a regulated frequency band with a frequency of 916 MHz. Every Z-Wave network has its own unique network identification. Therefore, it is possible to operate two or more independently operating networks in a room or home without any interference. Troubles that can be caused by other devices, as is the case in open, non-regulated frequencies (e.g. 433 MHz) are excluded.

1.4 Established

Although the Z-Wave technology is new, it has already developed to form a technical standard. Renowned manufacturers from various fields offer solutions and applications that are based on Z-Wave technology and compatible among one another. This makes the system fit for the future and promises further

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upgrade phases. Further information can be found on www.z-wave.com.

1.5 Dynamic

Z-Wave is equipped with a dynamic network structure. Right from the start, the position of the individual Z-Wave device that is supplied with 230 Volts is monitored and automatically updated in the case of changes. As a means of which it is possible to continuously adapt the network to its individual requirements, wholly automatically without the necessity of any programming tasks.

2. Before Installation/Setup

Please read carefully the enclosed user manual before the in order to ensure an error-free functioning. The product is permitted only for proper use as specified in the user manual. Any kind of guarantee claim has to be forfeited if changes, modifications or painting are undertaken. The product must be checked for damages immediately after unpacking. In the case of damages, the product must not be operated in any case. If a danger-free operation of the equipment cannot be assured, the voltage supply has to be immediately interrupted and the equipment has to be protected from unintended operation.

3. Product Description

The **Da Vinci** wall controller is a Multi Chanel Z-Wave device that contains up to 6 relays and up to 9 touch buttons that can be set to control either the relays or any other on/off (SWITCH_BINARY) Z-Wave device.

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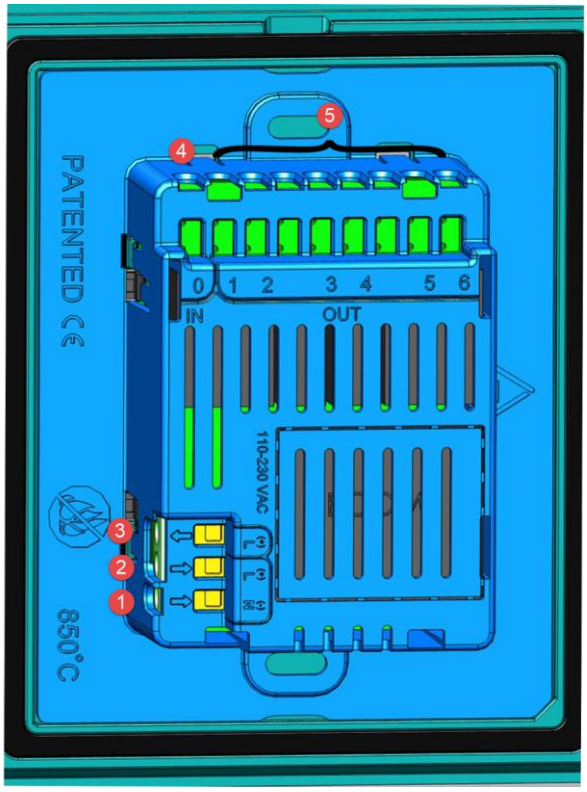
4. Installation

The device can be mounted into every GEWISS 3 or 4 gang.

1. Netural
2. Device line: 110 - 230 VAC
3. Line jumper for the relays (4)
4. Relays Input (12 - 230 VAC)
5. Relays output (The output number is accordance to the touch button number)



5. Functions/operation

5.1 *Add / Remove from network*

Press the #1 button for 5 seconds and release.

5.2 Reset of the device

Double Press the following buttons in the following order 8,1,3.

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5.3 Association groups

5.3.1 Root device

Group #	Associated endpoint	Max Nodes	Execute command class
1		5	Lifeline
2	1	5	SWITCH_BINARY_SET
3	1	5	SWITCH_BINARY_REPORT
4	2	5	SWITCH_BINARY_SET
5	2	5	SWITCH_BINARY_REPORT
6	3	5	SWITCH_BINARY_SET
7	3	5	SWITCH_BINARY_REPORT
8	4	5	SWITCH_BINARY_SET
9	4	5	SWITCH_BINARY_REPORT
10	5	5	SWITCH_BINARY_SET
11	5	5	SWITCH_BINARY_REPORT
12	6	5	SWITCH_BINARY_SET
13	6	5	SWITCH_BINARY_REPORT
14	7	5	SWITCH_BINARY_SET
15	7	5	SWITCH_BINARY_REPORT
16	8	5	SWITCH_BINARY_SET
17	8	5	SWITCH_BINARY_REPORT
18	9	5	SWITCH_BINARY_SET
19	9	5	SWITCH_BINARY_REPORT

5.3.2 Endpoints

Endpoint 1:

Group	Profile	Command class	Group name
1	Control : Button 1	CENTRAL_SCENE_NOTIFICATION	Button 1 via lifeline
2	Control : Button 1	SWITCH_BINARY_SET	On/Off control (Button 1)
3	Control : Button 1	SWITCH_BINARY_REPORT	On/Off Report (Button 1)

Endpoint 2:

Group	Profile	Command class	Group name
1	Control : Button 2	CENTRAL_SCENE_NOTIFICATION	Button 1 via lifeline
2	Control : Button 2	SWITCH_BINARY_SET	On/Off control (Button 2)
3	Control : Button 2	SWITCH_BINARY_REPORT	On/Off Report (Button 2)

Endpoint 3:

Group	Profile	Command class	Group name

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1	Control : Button 3	CENTRAL_SCENE_NOTIFICATION	Button 1 via lifeline
2	Control : Button 3	SWITCH_BINARY_SET	On/Off control (Button 3)
3	Control : Button 3	SWITCH_BINARY_REPORT	On/Off Report (Button 3)

Endpoint 4:

Group	*Profile*	*Command class*	*Group name*
1	Control : Button 4	CENTRAL_SCENE_NOTIFICATION	Button 1 via lifeline
2	Control : Button 4	SWITCH_BINARY_SET	On/Off control (Button 4)
3	Control : Button 4	SWITCH_BINARY_REPORT	On/Off Report (Button 4)

Endpoint 5:

Group	*Profile*	*Command class*	*Group name*
1	Control : Button 5	CENTRAL_SCENE_NOTIFICATION	Button 5 via lifeline
2	Control : Button 5	SWITCH_BINARY_SET	On/Off control (Button 5)
3	Control : Button 5	SWITCH_BINARY_REPORT	On/Off Report (Button 5)

Endpoint 6:

Group	*Profile*	*Command class*	*Group name*
1	Control : Button 6	CENTRAL_SCENE_NOTIFICATION	Button 6 via lifeline
2	Control : Button 6	SWITCH_BINARY_SET	On/Off control (Button 6)
3	Control : Button 6	SWITCH_BINARY_REPORT	On/Off Report (Button 6)

Endpoint 7:

Group	*Profile*	*Command class*	*Group name*
1	Control : Button 7	CENTRAL_SCENE_NOTIFICATION	Button 7 via lifeline
2	Control : Button 7	SWITCH_BINARY_SET	On/Off control (Button 7)
3	Control : Button 7	SWITCH_BINARY_REPORT	On/Off Report (Button 7)

Endpoint 8:

Group	*Profile*	*Command class*	*Group name*
1	Control : Button 8	CENTRAL_SCENE_NOTIFICATION	Button 8 via lifeline
2	Control : Button 8	SWITCH_BINARY_SET	On/Off control (Button 8)
3	Control : Button 8	SWITCH_BINARY_REPORT	On/Off Report (Button 8)

Endpoint 9:

Group	*Profile*	*Command class*	*Group name*
1	Control : Button 9	CENTRAL_SCENE_NOTIFICATION	Button 9 via lifeline
2	Control : Button 9	SWITCH_BINARY_SET	On/Off control (Button 9)
3	Control : Button 9	SWITCH_BINARY_REPORT	On/Off Report (Button 9)

5.4 Supported Command Classes

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- Association Command Class(V2)
- Association Group Information Command Class(V1)
- Basic Command Class (V1)
- Binary Switch Command Class (V1)
- Central Scene Command Class (V1)
- Device Reset Locally Command Class (V1)
- Manufacturer Specific Command Class (V1)
- Multi Channel Command Class (V4)
- Multi Channel Association Command Class (V2)
- Powerlevel Command Class (V1)
- Version Command Class (V2)
- Z-Wave Plus Info Command Class (V2)

5.5 Z-Wave Device Types

- Generic: On/Off Power Switch - Device Type
- Specific: Wall Controller

6. Technical data

- Frequency: 916 MHz
- Dimensions: 10 x 8 x 40 mm
- Association Groups: 10
- Operating temperature: 0°C to +75°C

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