

main controller or by other controller belonging to the system.

**Parameter no. 11 - Automatic turning off output after set time**

When relay is ON it goes automatically OFF after time defined by this parameter. Timer is reset to zero each time the module receive ON command regardless from where it comes (push button, associated module, controller, ...). Available configuration parameters (data type is 2 Byte DEC)

- Default value: 0
- 0 - Auto OFF disabled
- 1 - 32000 = 1second (0.01%) - 32000 seconds (320,00s) Auto OFF enabled with define time, step is 1s or 10ms according to parameter no.10

**Parameter no. 12 - Automatic turning on output after set time**

When relay is OFF it goes automatically ON after time defined by this parameter. Timer is reset to zero each time the module receive OFF command regardless from where it comes (push button, associated module, controller, ...).

Available configuration parameters (data type is 2 Byte DEC)

- Default value: 0
- 0 - Auto ON disabled
- 1 - 32000 = 1second (0.01%) - 32000 seconds (320,00s) Auto ON enabled with define time, step is 1s or 10ms according to parameter no.10

**Parameter no. 13 - Automatic turning off / on seconds or milliseconds selection**

Available configuration parameters (data type is 1 Byte DEC)

- Default value: 0
- 0 - seconds selected
- 1 - milliseconds selected

NOTE: This parameter is valid for both, turning on and turning off parameters.

**Parameter no. 30 - Saving the state of the relay after a power failure**

Available configuration parameters (data type is 1 Byte DEC)

- Default value: 0
- 0 - Push IO-relay module saves its state before power failure (it returns to the last position saved before a power failure)
- 1 - Push IO-relay module does not save the state after a power failure, it returns to

"off" position.

**Parameter no. 62 - Output Switch selection**  
Set value means the type of the device that is connected to the output. The device type can be normally open (NO) or normally close (NC). Available configuration parameters (data type is 1 Byte DEC)

- default value: 0
- 0 - When system is turned off the output is ON (NC)
- 1 - When system is turned off the output is 200V or 24V (NO)

**Parameter no. 60 - Reporting to controller**

This parameter defines if reporting regarding power level, multilevel, etc. are reported to controller or not.

Available configuration parameters (data type is 1 Byte DEC)

- Default value: 1
- 0-reporting to controller is disabled
- 1-reporting to controller is enabled

NOTE: Disabling reporting is recommended in case 2-wire modules communicate in association groups without using main controller.

**Parameter no. 108 - Enable / Disable Endpoint2**

Enabling (0) means that Endpoint (E) will be present on UI. Disabling it will result in hiding endpoint according to parameter set value. Note that hiding endpoint has no impact on it functionality.

Available configuration parameters (data type is 1 Byte DEC)

- default value: 1
- 1 - Endpoint, 2 enabled
- 0 - Endpoint, 2 disabled

NOTE: After parameter change module has to be reconfigured!

**Parameter no. 148 - Temperature sensor offset settings**

Set value is added or subtracted to actual measured value by sensor.

Available configuration parameters (data type is 2 Byte DEC)

- default value: 0000
- 0000 - offset is 0.0C
- From 1 to 100 - value from 0.1 °C to 10.0 °C is added to actual measured temperature.

- From 1001 to 1100 - value from -0.1 °C to -10.0 °C is subtracted to actual measured temperature.

**Parameter no. 126 - Digital temperature sensor reporting**

If digital temperature sensor is connected, module reports measured temperature or temperature change defined by this parameter. Available configuration parameters (data type is 1 Byte DEC)

- Default value: 0 (Temperature is reported on 0.1°C change)
- 0 - Reporting disabled
- 1 - 107 = 0.1°C - 10.7°C, step is 0.1°C

## Technical Specifications

Power supply	110 - 230 VAC ±10% (2000Hz, 24.20VDC)
Rated load current of AC (output (resistive load))	1 x 10A / 230VAC
Rated load current of DC (output (resistive load))	1 x 10A / 24VDC
Output circuit power of AC output (resistive load)	2200W (230VAC)
Output circuit power of DC output (resistive load)	240W (24VDC)
Digital temperature sensor range (sensor must be ordered separately)	50 - +125°C
Operation temperature	-10 - +40°C
Clearance	up to 30 m indoors (depending on building materials)
Dimensions (WxHxD) (mm/INCH)	67,8x30,8x10,8mm (2,7x1,2x0,42INCH)
Weight (module with terminal(s))	20g (0,7g)
Electricity consumption	0.4W
For installation in boxes (switching)	0.5 A filament or 2A filament

\* In case of load after than resistive, pay attention to the value of cos φ and if necessary apply load lower than the rated load. Max current for cos φ=0.4 is 2A at 230VAC, 3A at 24VDC LRA=1ms.

## Z-Wave Device Class:

```
DEVICE_TYPE_SWITCH_BASIC  
DEVICE_TYPE_SWITCH_BASIC  
SPECIFIC_TYPE_POWER_SWITCH_BASIC
```

## Z-Wave Supported Command Classes:

```
COMMAND_CLASS_MANUFACTURER_INFO  
COMMAND_CLASS_VERSION  
COMMAND_CLASS_MANUFACTURER_SPECIFIC  
COMMAND_CLASS_POWERLEVEL  
COMMAND_CLASS_BASIC
```

```
COMMAND_CLASS_SWITCH_ALL  
COMMAND_CLASS_SWITCH_BASIC  
COMMAND_CLASS_SENSOR_MULTILEVEL_V1  
COMMAND_CLASS_MULT_CHANNEL_V3  
COMMAND_CLASS_ASSOCIATION  
COMMAND_CLASS_CONFIGURATION  
COMMAND_CLASS_MANUFACTURER_SPECIFIC  
COMMAND_CLASS_VERSION  
COMMAND_CLASS_WAKE  
COMMAND_CLASS_BASIC  
COMMAND_CLASS_SWITCH_BASIC
```

### Endpoint 1

```
COMMAND_CLASS_MANUFACTURER_INFO  
COMMAND_CLASS_VERSION  
COMMAND_CLASS_MANUFACTURER_SPECIFIC  
COMMAND_CLASS_POWERLEVEL  
COMMAND_CLASS_BASIC  
COMMAND_CLASS_SWITCH_ALL  
COMMAND_CLASS_SWITCH_BASIC  
COMMAND_CLASS_SENSOR_MULTILEVEL_V1  
COMMAND_CLASS_ASSOCIATION  
COMMAND_CLASS_CONFIGURATION  
COMMAND_CLASS_MANUFACTURER_SPECIFIC  
COMMAND_CLASS_VERSION  
COMMAND_CLASS_WAKE  
COMMAND_CLASS_BASIC  
COMMAND_CLASS_SWITCH_BASIC
```

### Endpoint 2 (E2)

#### Device Class:

```
DEVICE_TYPE_SENSOR_BASIC  
SPECIFIC_TYPE_AQ1_USED
```

#### Command Classes:

```
COMMAND_CLASS_SENSOR_BASIC  
COMMAND_CLASS_BASIC
```

This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from any other manufacturers. All constantly powered nodes in the same network will act as repeaters regardless of the vendor in order to increase reliability of the network.

## Important disclaimer

Z-Wave wireless communication is inherently not always 100% reliable, and as such, this product should not be used in situations in which life and/or valuables are solely dependent on its function.

## Warning!

Do not dispose of electrical appliances at 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 at least for free of charge.

This user manual is subject to change and improvement without notice.

## NOTE

User manual is valid for module with 2W sensor (E) (2W sensor is part of PWS)  
Example file: 0480001011.pdf



## Qubino

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Date: 08.04.2019  
Document: Qubino\_Flash IO relay  
PLUS user manual\_V1 0\_eng

# Energy Plus User Guide

**Thomas Griffiths**



## **Energy Plus User Guide:**

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## Energy Plus User Guide Introduction

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