

FIBARO | Dimmer 2

Model: FGD-212 ZW5

Radio controlled light dimming module, designed to work with various types of light sources. May be connected to two-wire or three-wire configuration. FIBARO Dimmer 2 can switch or dim connected light source either through radio waves or through the wall switch connected directly to it. New FIBARO Dimmer 2 is equipped with an algorithm of smart light source detection which makes configuration easier and ensures high compatibility of the device. It features automatic overload protection switch-off and soft start function.



AS A DIMMER IT OPERATES UNDER THE FOLLOWING LOADS:

- 230V operated conventional incandescent and halogen light sources
- 12V operated ELV halogen lamps and dimmable LED bulbs (with electronic transformers)
- 12V operated MLV halogen lamps (with ferromagnetic transformers)
- dimmable LED bulbs
- dimmable compact fluorescent CFL tube lamps
- supported dimmable light sources (power factor > 0.5) with minimal power of 5VA using FIBARO Bypass 2 (depending on the type of load)

WITHOUT DIMMING FUNCTION IT MAY WORK WITH:

- compact fluorescent CFL tube lamps with electronic ballast
- fluorescent tube lamps with electronic ballast
- LED bulbs (power factor > 0.7)
- supported light sources (power factor > 0.5) with minimal power of 5VA using FIBARO Bypass 2 (depending on the type of load)

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Dimmer 2

TECHNICAL DATA

Power source	220-240V~ 50Hz
Output power	50-250W (resistive load)
Power consumption	up to 1.3W
Ambient temperature	0°C - 35°C
For installation in boxes	Ø >= 50mm, depth >= 60mm
Radio protocol	Z-Wave (500 series chip)
Radio frequency	868.42 MHz or 869.85 MHz EU 908.4 MHz or 916 MHz US 921.4 MHz or 919.8 MHz ANZ 869 MHz RU
Range	up to 40m (131 ft) (depending on building structure)
Compliant with EU directives	RoHS 2011/65/EU RED 2014/53/EU
Outside dimensions (L x W x H)	42.5 x 38.25 x 20.3mm

ECO PACKAGING / NEW

UNIT PACKAGE

Weight	0.045 kg
Length	6.5 cm
Width	6.5 cm
Height	3.0 cm
Pieces	1

COLLECTIVE PACKAGE

Weight	2.4 kg
Length	34.0 cm
Width	21.0 cm
Height	10.5 cm
Pieces	45

PAST PACKAGING / NON-ECO

UNIT PACKAGE

Weight	0.061 kg
Length	6.5 cm
Width	6.6 cm
Height	4.6 cm
Pieces	1

COLLECTIVE PACKAGE

Weight	2 kg
Length	34.0 cm
Width	21.0 cm
Height	10.5 cm
Pieces	30

Model: FGSD-002 ZW5

The FIBARO Smoke Sensor is a universal, optical Z-Wave smoke detector. Fire alarm is signaled by sound, visual indicator blinking and by sending Z-Wave control commands. The optical sensor detects smoke at an early stage of fire, often before flames appear and temperature starts to rise significantly. Moreover the device has a built-in temperature sensor, which is programmable indicator of exceeding set temperature level. The FIBARO Smoke Sensor is designed to be placed on a wall or ceiling. Visual indicator signals fire, operating mode and is used to see if device is within the Z-Wave network.



PRODUCT HIGHLIGHTS

- Compatible with Z-Wave and Z-Wave+ Controllers
- Battery powered
- 3 levels of sensors sensitivity compliant with EN 14604:2005
- Built-in enclosure opening detector
- Dedicated safety mechanism which prevents closing the enclosure without the battery installed
- Alarm signaled by a loud sound, visual indicator and Z-Wave control command
- Additional function of informing about rapid temperature rise by exceeding programmed temperature threshold
- Efficiency test performed automatically every 10 seconds to detect possible malfunction
- Self-test functionality which may be performed manually to test FIBARO Smoke Sensor's operation
- Built-in "black box" to report and record smoke and temperature readouts in its internal memory
- Built-in Z-Wave range tester
- Wireless software update feature
- Z-Wave Plus compatible

Please note that the device plays informational role only.

TECHNICAL DATA

Battery type	CR123A 3.0V DC (included)
Operational temperature	0 – 55°C
Operational Humidity	0% - 93%
Measured temperature range	-20 to 100°C
Temperature measuring accuracy	0.5°C (within 0°C-55°C range)
Smoke sensitivity	1st level – 1.20 +/- 0.5% obs/ft 2nd level – 1.80 +/- 0.5% obs/ft 3rd level – 2.80 +/- 0.5% obs/ft
Sound pressure level	85dB / 3m
Radio protocol	Z-Wave (500 series chip)
Radio frequency	868.4, 869.85 MHz EU 908.4, 916.0 MHz US 921.4, 919.8 MHz ANZ 869.0 MHz RU
Compliance with	LVD 2006/95/EC EMC 2004/108/EC R&TTE 1999/5/EC RoHS 2011/65/EU EN 14604:2005
Range	up to 40m (131 ft) (depending on building structure)
Dimensions (Diameter x Height)	65mm x 28mm

UNIT PACKAGE

Weight	0.096 kg
Length	9.4 cm
Width	9 cm
Height	3.5 cm
Pieces	1

COLLECTIVE PACKAGE

Weight	3.38 kg
Length	47 cm
Width	19 cm
Height	18 cm
Pieces	30

Please note that the device plays informational role only.

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Bypass 2

Model: FGB-002

FIBARO Bypass 2 is a device complementary to FIBARO Dimmer 2. Its installation makes possible to dim light sources with minimum power consumption, such as e.g. single 0.5 Watt LED. Please note it is possible to dim only light sources clearly marked as dimmable.



PRODUCT HIGHLIGHTS

- A Power source: 100-240V~ 50/60Hz,
- A Operating temperature: 0-35°C,
- A Power consumption: up to 1.4W,
- A Outside dimensions (L x W x H) - 31mm x 21.6mm x 13mm.

UNIT PACKAGE

Weight	0.060 kg
Length	6.5 cm
Width	6.5 cm
Height	4.5 cm
Pieces	1

COLLECTIVE PACKAGE

Weight	2 kg
Length	33.5 cm
Width	20.0 cm
Height	9.5 cm
Pieces	60