**I GENERAL INFORMATION ABOUT FIBARO SYSTEM**

FIBARO is a wireless system based on 2.4GHz technology. FIBARO provides many advantages when compared to similar systems. In general, radio systems create a direct connection between the receiver and transmitter. But the radio signal is weakened by various obstacles located on its path (apartment walls, glass, etc.). FIBARO transmits this signal in radio frequency. The percentage of FIBARO system is that it does not accept barriers from facades, windows or doors. You can send a signal over a distance of 100 m to a location that is closed by obstacles.

**Specifications**

- **Power supply**: 110–230 V AC, 50/60Hz 240–480 V DC
- **Rated load current for AC input**: 16 A / 250V/50Hz
- **Output circuit power (rated load 230V)**: 3 kW
- **Comply with EU standards**: EN 50155:2010, EN 60669-2-1
- **Temperature limits**: 10°C - 40°C
- **Operating frequency**: 868.4 MHz EU; 915 MHz ANZ; 908.4 MHz US
- **Radiation power**: 1 mW
- **Antenna size**: 42 x 37 x 17 mm
- **Note**: Do not cut or shorten the antenna - its length is perfectly matched to the band in which the system operates.

**Technology information**

- **Controlled by FIBARO system devices or any Z-Wave controller.
- **Radio Frequency**: 921.4 MHz ANZ; 908.4 MHz US; 868.4 MHz EU
- **Power consumption**: <0.8 W
- **I NS1 S2 L**
- **I NS1 S2 N**

**Technical information**

- **Connectivity**: FIBARO system devices or any Z-Wave controller.
- **Microprocessor control**
- **Executive element relay**
- **Device may be operated by momentary and toggle push-button.

**I OPERATING MANUAL RELAY SWITCH**

**FGS - 211 v1.9 - v1.10**

Remotely Controlled Relay Switch of Fibaro System is designed to control up to 3 kW electric device (up to 3kW) is needed. It is also possible to send signals to any system that is to be integrated with Fibaro System.

**I II Assembling Fibaro Switch**

1. Before installation ensure that the voltage supply is disconnected.
2. Connect Fibaro Switch as shown on the switch block diagram.
3. Attach the antenna (tip are presented below diagrams).
4. Arrange the antenna (tip are presented below diagrams).

**III Activating Fibaro Switch**

1. **Installing the Fibaro Switch**

   **STEP 1**
   
   Connect the device in accordance with the wiring diagram presented in Figure 1. Switch on/off in the main voltage.

   **STEP 2**
   
   Fibaro Switch must be placed within the range of Home Center controller, as well as providing direct communication with the controller.

   **STEP 3**
   
   Fig. 2: Switch diagram shown by home controller.

**IV Association**

- **Association enables Fibaro Switch to directly control a device included in 2-Wire network e.g. Dimmer/ Switch ON/OFF, Roller Shutter Control (same device can be controlled only through the Home Center controller).**

**II diagrams for Fibaro Switch.**

**TIPS FOR ARRANGING THE ANTENNA:**

- **Locate the antenna as far from metal elements as possible (contacting wires, metal, iron, etc.) in order to prevent interferences.**
- **Metallic structures in the direct vicinity of the antenna (e.g. bus/structural metal boxes, metal door frames) may impair signal reception.**
- **Do not cut or shorten the antenna. It's length is perfectly matched to the band in which the system operates.**
- **Note**: It should be noted that only the push-button combined with single switch and push-button Fibaro Switch enables "learning" mode (Include Exclusive).

**DICTIONARY**

- **Learn (Learning)**: Adding a device sends "node info" frame, to enable user to add it to Fibaro system (Home Center)
- **Exclusion (Removing)**: Removing a device from the Fibaro system radio network.
- **ASSOCIATION**: controlling other devices of Fibaro system
- **MultiChannelAssociation**: controlling other multichannel devices of Fibaro system

By default, Fibaro Switch accepts both active commands ALL ON and ALL OFF. Settings may be changed by entering an appropriate value into configuration register (see use configuration).

Fibaro Switch sends data to the Home Center controller after adding Fibaro Switch to the network, it will be represented in Home Center by the following icon:

**Parameter No. 1 - activate deactivation functions ALL ON / ALL OFF**

**Default value**: 500, 500 - OFF

**Parameter No. 3 - Auto off relay after specified time, with the possibility of manual override - removable OFF after button push**

**Default value**: 0

**Parameter No. 4 - Sending commands to control devices assigned to 1st association group (key 1)**

**Default value**: 505 (0 x 505.3 x 505.4) Time period for auto off; in miliseconds

**Parameter No. 13 - Assign bistable key status to the device status**

**Default value**: 0

**Parameter No. 15 - Operation of the Dimmer and Roller Shutter Controller - enabling this option allows the user to dim light in the rooms’ lighting (Dimmer/Roller Shutter Controller) and holding or double press of double switch (only bistable push button) will switch on/off and dimmers are set to 100% brightness.**

**Parameter No. 16 - Switch type connector, you may choose between momentary or toggle switches**

**Default value**: 1

**V Configuration**

The available options in the following are offered in the Fibaro interface as simple options that may be changed by clicking on the appropriate option in the Fibaro Switch (using the Home Center controller), please refer to the following icon:

**Parameter No. 1 - activate deactivation functions ALL ON / ALL OFF**

**Default value**: 500, 500 - OFF

**Parameter No. 3 - Auto off relay after specified time, with the possibility of manual override - removable OFF after button push**

**Default value**: 0

**Parameter No. 4 - Sending commands to control devices assigned to 1st association group (key 1)**

**Default value**: 505 (0 x 505.3 x 505.4) Time period for auto off; in miliseconds

**Parameter No. 13 - Assign bistable key status to the device status**

**Default value**: 0

**Parameter No. 15 - Operation of the Dimmer and Roller Shutter Controller - enabling this option allows the user to dim light in the rooms’ lighting (Dimmer/Roller Shutter Controller) and holding or double press of double switch (only bistable push button) will switch on/off and dimmers are set to 100% brightness.**

**Parameter No. 16 - Switch type connector, you may choose between momentary or toggle switches**

**Default value**: 1

**Parameter No. 17 - Actuating the parameter**

**Default value**: 0

**Parameter No. 13 - Assign bistable key status to the device status**

**Default value**: 0
VIII Procedures for malfunctions

The device does not respond to a pre-programmed transmitter:
• Make sure the device is not in the programming mode, or repeat
  path is not obstructed by metal surfaces such as metal cabinets, etc.
• Make sure that the maximum range is not exceeded and the signal
  the device does not respond to a pre-programmed transmitter:

IX GUARANTEE

1. The Guarantee is provided by FIBARO Group Sp. z o.o.
  (hereinafter “Manufacturers”) based in Poznan, ul. Lotnica 1-50421
  Poznan, entered in the register of the National Court Register kept
  by the District Court in Poznan, VIII Economic Department of the
  National Court Register, no. 371/51, NIP: 7911568097, REGON:
  301093694.

2. The Manufacturer is responsible for equipment malfunction resulting
  from physical defects (manufacturing or material) of the Device for
  12 months from the date of its purchasing.

3. During the Guarantee period, the Manufacturer shall remove any
  defects, free of charge, by repairing or replacing (at the sole
  discretion of the Manufacturer) any defective components of the
  Device without affecting its performance. If the repair is not possible.
  When the repair impossible, the Manufacturer reserves the
  the device with a new or refurbished one, which shall
  be free of any defects and its condition shall not be worse than
  the original device owned by the Customer.

4. In special cases, when the device cannot be replaced with the
  device of the same type (e.g. the device is no longer available in the
  commercial offer), the Manufacturer may replace it with a different
  equipment of similar performance, which will meet the functional
  activity shall be considered as fulfilling the obligations of the
  Manufacturer. The Manufacturer shall not refund money paid for
  this device.

5. The holder of a valid guarantee shall submit a guarantee claim
  through the guarantee services. Remember before you submit a
  guarantee claim, contact our technical support using telephone or
  email. More than 30% of technical problems is received reporting
  directly to the manufacturer. If the technical problem is not
  related to the shot, the Manufacturer shall consult with the
customer with technical problems. For unjustified service calls, the
  Manufacturer may submit the claim, the Consultant shall provide the
  Customer with the unique number (Return Material Authorization -
  RMA).

6. The claim may be also submitted by telephone. In this case, the
  call is recorded and the Consultant shall inform about it to a
  consultant before submitting the claim. Immediately after the
  claim, the Consultant shall provide the Consultant with the claim
  number (RMA-number).

7. When the guarantee claim form is submitted correctly, a
  representative of the Authorized Guarantee Service (hereinafter as
  AGS) shall contact the Customer and book the consultation.

8. Defects revealed within the guarantee period shall be removed
  without the 30 days from the date of delivering the Device to AGS.
The guarantee period shall be extended by the time in which
  the Device was kept by AGS.

9. The faulty device shall be provided by the Customer with complete
  standard equipment and documents proving its purchase.

10. Parts replaced under the guarantee are the property of the
  Manufacturer. The Manufacturer give all parts replaced in the guarantee
  process shall be equal to the guarantee period of the original device.
The guarantee period of the replaced part shall not be extended.

11. Costs of delivering the faulty device shall be borne by the
  Customer. For unjustified service calls, the Service may charge the
  Customer with Travel expenses and handling costs related to the
  case.

12. AGS shall not accept claim only when:
    • The device was misused or the manual was not observed.
    • The device was provided by the Customer incomplete, without
      the standard equipment and documents proving its purchase.
    • the Device was provided by the Customer incomplete, without
      the standard equipment and documents proving its purchase.
    • damages caused by faulty electrical installation of the Customer,
      including the use of incorrect fuses;
    • damages caused by operating faulty Device or accessories
      defects caused by operating faulty Device or accessories

15. The scope of the guarantee repairs shall include periodic
  maintenance and inspections, in particular cleaning activities,
  operational checks, correction of errors or parameter programming
  and other activities that should be performed by the user (Buyer).
The guarantee shall not cover normal wear and tear of the Device

16. If a defect is not covered by the guarantee, the Manufacturer
  reserves the right to remove such defects at its sole discretion
  removing the damaged or destroyed parts or providing components
  necessary for repair or replacement.

17. This guarantee shall not restrict, limit or suspend the Customer
  rights when the provided product is inconsistent with the purchase
  agreement.