

**Installation and user instructions**  
**Exterior wall-mounted transmitter**

Ref. 10020022, 10020023



**1. Overview**

**1.1 Usage**

O<sub>2</sub>LINE 1002001 exterior wall-mounted transmitters are an integral part of the TRIO<sub>2</sub>SYS radio system. The radio signal is transmitted at 868.3 MHz, the European standard frequency. It is particularly suitable for unrecessed wall-mounted electrical installations, for example: in cellars, garages or outside controllers. Just press the switch to remotely control a variety of equipment via the receivers. Before use, the switch must be paired with a receiver (see the receiver documentation for programming). Each switch can control an unlimited number of receivers.



**Note:**

- It does not require a battery or any maintenance!
- Read the user instructions carefully before activating.

**1.2 Warranty clauses**

This operating manual is an integral part of the device and our warranty conditions. It must always be issued to the user. We reserve the right to alter the construction techniques of our devices without prior notice. TRIO<sub>2</sub>SYS products are manufactured and their quality is controlled using state-of-the-art technology and based on applicable French and international directives. If, however, the product is defective, TRIO<sub>2</sub>SYS undertakes to remedy the problem as follows, without prejudice to the rights of the end user pursuant to the contract of sale with the reseller:

If a legitimate and lawful claim is made, TRIO<sub>2</sub>SYS, at its sole discretion, shall repair or replace the faulty device. Any claim over and above and any request for compensation for consequential damages is excluded.

A legitimate fault exists if the device is unusable at the time of delivery to the end user because of a design or manufacturing defect or if its practical use is significantly limited. The warranty shall be void in the case of natural wear, misuse, incorrect connection, where the device has been repaired or external influence. The warranty period is 24 months (invoice date). The warranty rights shall be governed by French law.

**1.3 Disposal of the device**

To recycle the device, comply with the legislation and regulations in effect in the country where the device is used.

**2. Safety**

**Pay attention to the following points:**

- The laws, standards and directives in force.
- The rules of the art at the time of installation.
- The device's operating manual.
- Operating manuals can only provide general instructions. They should be interpreted in the context of the specific installation.

The device is designed to be used solely in compliance with its purpose. Any repairs or modifications made by the user are prohibited! Do not use with other devices, the operation of which could endanger people, animals or property.

**3. Technical properties**

General properties	
Transmission frequency	868.3 MHz
Transmission power	10MW max.
Operating temperature	From -25°C to +65°C
Storage temperature	From -25°C to +65°C
Switching cycles	>50,000
Certifications	EC and R&TEE, Directive 1999/5/EC
Relative air humidity	From 0% to 95%
Protection index	IP55

**Range in buildings**

Masonry	20m, through a maximum of 3 walls
Reinforced concrete	10m, through a maximum of 1 wall/ceiling
Plasterboard/Wood	30m, through a maximum of 5 walls

**Note:** The signal strength between the transmitter and the receiver reduces as the distance increases. For line-of-sight connection, the range is approximately 30m in corridors and 100m in large spaces. The signal strength can be increased with an O<sub>2</sub>LINE repeater.

**4. Fitting and activation**



**4.1 Mounting instructions**

- Choose the installation location in accordance with the protection index. First flatten rough surfaces before installing the device. Unevenness may lead to the switch malfunctioning.
- During installation, ensure the specified fitting position (O = top, I = bottom) as shown on the back of the transmitter (1).
- NEVER mount the transmitter in a metal housing or in the immediate vicinity of large metal objects. It is not advisable to fit it close to or on the floor.

**4.2 Installation**

- Install the switches (2) on the transmitter (1) then place this assembly onto the frame (3) (to clip it on well, introduce the assembly by the rear of the frame)
- Use the base (4) as a drill template and mark the holes to be drilled.
- Drill holes for the 5mm wall plugs.
- Fasten the base (4) with screws and Rawl plugs.
- Position and screw the frame (3) onto the base (4) making sure the sealing gasket is in the correct position.

**4.3 Activation**

- Install the receiver (performed by an electrician only).
- Pair the wall-mounted transmitter with the receiver.

**Note:** The internal transmitter (1) is not waterproof, it should not get wet! To clean, wipe with a damp cloth!

**5. Troubleshooting**

**5.1 New or existing installation**

- Check the circuit breaker, the power supply and the power connected to the receiver paired with this transmitter (professional electricians).
- If the receiver functions at a shorter distance relative to the transmitter, it is subject to interference or used beyond the transmission range.
- Search the system environment for changes that could cause the interference (e.g. movement of metallic cabinets, furniture or partitions).
- Use the transmitter or receiver in a more suitable location.
- Reset the receiver and repeat the pairing process.

**5.2 Automatic activation of the receiver**

- The cause may be the activation of a sensor or transmitter outside the system that has been coincidentally programmed to the receiver.
- Reset the receiver and repeat the pairing process.

**5.3 Limitation of the radio signal range**

- Transmitter/receiver used too close to metal objects or material containing metallic elements. Maintain a distance of at least 10cm.
- Humidity in the equipment.
- Devices emitting high frequency signals such as audio and video equipment, computers or electronic ballasts for fluorescent tubes. Maintain a distance of at least 0.5 m.

**5.4 Contacts**

Email:..... contact@trio2sys.fr

**6. Declaration of conformity**

These products may be sold and used in the countries of the European Union, Switzerland, Island and Norway. Hereby, TRIO<sub>2</sub>SYS declares that the transmitters 1002022 and 1002023 comply with the essential requirements and other applicable requirements of Directive 1999/5/EC known as the R&TTE Directive.

For more information about the standards implemented, visit our website [www.trio2sys.fr](http://www.trio2sys.fr).

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