

Installation and operating manual
Universal piggy-back receiver socket



Ref. 10020024, 10020031

1. General

1.1 Use

Universal piggy-back receiver sockets O₂LINE 10020024 and 10020031 are used to receive radio signals originating from switch or window contact transmitters O₂LINE 10020003. They are used for switching loads, e.g. incandescent, halogen, electronic ballast lights or small motors. Operation of the output is changed over (load supply) at the receiver switch 10020031. Before any use, the transmitters must be allocated to a receiver. Each sensor or transmitter can control an unlimited number of receivers.

Note: Read the operating manual carefully before initial use.

1.2 Guarantee terms

This operating manual is an integral part of the device and our guarantee terms. It must always be delivered to the user. We reserve the right to modify the technical design of these devices without warning. TRIO₂SYS products are manufactured and their quality checked by making use of the latest technologies and taking into account the applicable national and international directives. If nevertheless a fault arises, TRIO₂SYS undertakes to remedy the default as follows, without prejudicing the rights of the end customer that arise from the sales contract with his reseller:

If the event of exercising of a legitimate and regular right, TRIO₂SYS, may at its sole discretion, rectify the device fault or supply a fault-free device. Any claim beyond this and all claims for consequential damages are excluded. A legitimate fault exists if the device cannot be used at the time of delivery to the end customer because of a design or manufacturing defect or if its practical use is severely limited. The guarantee is void in cases of natural wear and tear, incorrect use, incorrect connection, where the device has been repaired or external influence. The period of guarantee is 24 months (from the date of invoicing). French law applies to the regulation of guarantee rights.

1.3 Recycling of the device

To recycle the device, conform to the legislation and standards in force in the country of use.

The casing is made from recyclable plastic.

2. Safety

Observe the following points:

- The laws, standards and directives in force.
- The device operating manual.
- An operating manual can only give general instructions. They must be interpreted in the context of a specific installation.

The device is intended solely for use conforming to its purpose. Any repairs or modifications by the user are forbidden! Do not use with other devices the operation of which could endanger people, animals or property.

3. Technical characteristics

General characteristics	
Transmission frequency	868.3 MHz
Power supply	230V~ / 50 Hz
Output	Max. 1500W
Ambient temperature	from -10°C to +45°C
Storage temperature	From -20°C to +85°C
Test specifications	IEC 60669-2-1
Authentications	CE
Degree of protection	IP 20
Range in buildings	
Masonry	20m, through 3 walls at most
Reinforced concrete	10m, through 1 wall/ceiling at most
Plasterboard / wood	30m, through 5 walls at most

Note: The signal strength between the transmitter and the receiver decreases as the distance increases. Where there is a line of sight connection, the range is approximately 30 m in corridors and 100 m in large workshops or halls. The range can be increased with an O₂LINE repeater.

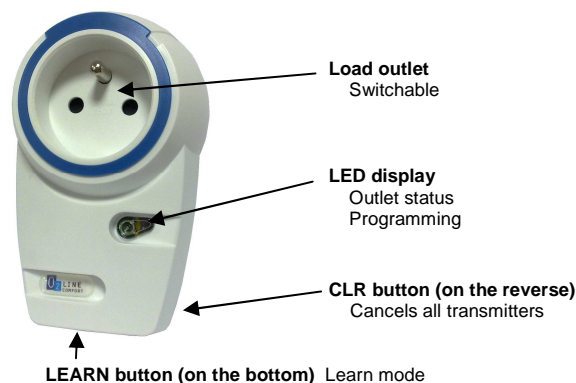
4. Installation and initial use

4.1 Safety instructions

- Adhere to the maximum load (see Section 3).
- Do not use outside (closed environments only)
- Avoid extreme temperatures, humidity and vibrations.
- Use solely with CE-labelled sockets.
- Do not connect to extension leads.
- Do not stack multiple piggy-back sockets.
- Do not insert foreign bodies into the piggy-back socket.
- Do not connect devices whose inadvertent activation is likely to cause a fire or other damage (e.g. convection heater, iron).
- To clean, disconnect the piggy-back socket from the wall socket and clean with a slightly damp cloth.
- Do not use cleaning agents or aggressive solvents.

4.2 Installation

- NEVER install the receiver in a metal casing or in the immediate vicinity of large metallic objects.
- Installation on the ground or close to the ground is not recommended



4.3 Initial use

- Plug the piggy-back socket into a CE-compliant wall power socket/outlet.
- Connect the load to the outlet socket.
- Program the transmitter on the receiver (see point 5).

5. Programming

For programming the receiver must be connected to the mains (plug the piggy-back socket into a wall socket).

The programming is conserved during a power failure.

5.1 Programming mode or transmitter deletion mode

! N.B.! A transmitter must not be further away than 5 m from the receiver in learn mode. The receiver has a limited range!

To return to programming mode, quickly press (approximately 0.5s) the **LEARN** button. This mode is confirmed by the regular switching of the output relay and its load.

- To associate a transmitter simply press on one of the switches or press the **LEARN** button. The receiver will acknowledge its recording in memory by maintaining the relay **ON/10020024** or **OFF/10020031** for 4 seconds. As soon as switching of the relay recommences, another transmitter can be associated or cleared.
- To clear a transmitter simply press on one of the switches or press the **LEARN** button of the desired window. The receiver will acknowledge its deletion from memory by maintaining the relay **OFF/10020024** or **ON/10020031** for 4 seconds. As soon as switching of the relay recommences, another transmitter can be associated or cleared.

To exit programming mode, quickly press (approximately 0.5s) the **LEARN** button. The outlet is confirmed by the stopping of regular switching of the output relay and its load.

Remarks:

- No transmitter is programmed in the receiver's as supplied state.
- Up to 30 switch transmitters or 2 window sensors can be allocated to each receiver.
- If the memory is full, the receiver exits programming mode upon an additional association attempt.
- The transmitters are alternatively programmed or cleared in the event of several activations!
- In no button is pressed, learn mode terminates automatically after 30 s.

5.2 Clearing of all programmed transmitters

Press the **CLR** button for approximately 2s. Clearing is confirmed by the regular switching of the output relay and its load. The receiver returns automatically to programming mode.

To exit programming mode, quickly press (approximately 0.5s) the **LEARN** button. The outlet is confirmed by the stopping of regular switching of the output relay and its load.

6. Control and functions

Each receiver can receive up to a maximum of 30 switch transmitters or up to 2 window contacts. Upon allocating the first transmitter, the operating mode is defined. The operating mode cannot be changed until all the transmitters have been cleared using the **CLR** button.

Switch mode: Each transmitter can be used to change the switched state of the receiver. It is possible to switch **ON** (button *I/10020024* and *O/10020031*) with one switch and **OFF** (button *O/10020024* and *I/10020031*) with another switch.

Window contact mode: If at least one of the window contacts is open, this activates the receiver to **ON/10020024** or **OFF/10020031**. If the two possible window contacts are closed, the receiver state is **OFF/10020024** or **ON/10020031**. The window contacts transmit a signal approximately every 15 minutes. 60 minutes after receipt of the last signal received, the receiver considers this contact closed.

7. Troubleshooting

7.1 New or existing installation

- Check the circuit breaker, the electrical supply and the load connected to the receiver associated with this sensor (qualified electricians).
- Check the connected load and the connecting cables (qualified electricians).
- If the receiver functions at a shorter distance relative to the sensor, it is subject to interference or used outside the transmission range.
- Search the system environment for changes that could cause the interference (for example movement of metallic cabinets, furniture or partitions).
- Use the sensor or receiver in a more suitable location.
- Clear the receiver and perform a new learn process.

7.2 Automatic activation of the receiver

- The cause may be the activation of a sensor external to the system which has by chance been programmed on the receiver.
- Clear the receiver and perform a new learn process.

7.3 Limitation of the range of the radio signals

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

7.4 Contacts

E-mail:..... contact@trio2sys.fr

8. Declaration of conformity

These products can be marketed and distributed in the countries of the European Union, Switzerland, Iceland and Norway. **TRIO₂SYS** hereby declares that the receivers **10020024** and **10020031** conform to the base requirements and other applicable requirements of the directive 1999/5/CE referred to as R&TTE.