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Multi-functional
device that can be
set from the App



ASTRO

TIMER

LOG



SAFETY WARNINGS



Read the instruction manual carefully before using the product as it provides important information regarding safety, installation and use. Store the instruction manual carefully for future consultation.



The Wi-Fi device must only be installed, serviced and connected electrically by a qualified electrician and in compliance with regulations and laws in force.



Make sure the 230V mains power supply is disconnected before installing or carrying out any maintenance operations.

- Make sure the product is intact after removing it from the packaging box.
- Packaging components (plastic bags, PVC suspensions, etc.) must be kept out of the reach of children.
- The Wi-Fi astronomical switch must be installed on a DIN rail inside an electrical panel.



RADIO EMISSION:
the device intentionally emits radio waves on the frequency band of "2412-2472" MHz (Wi-Fi), with a maximum power of less than 100 mW e.i.r.p.



Radio-frequency waves emitted from the Wi-Fi device do not pose a risk to human and animal health.

INTERNET
offline

Important: the manufacturer shall not, under any circumstances, be liable if the products fail to operate due to the interruption of the internet network or unavailability of these resources:
Cloud, Server, Portal.



Important: internet access costs are charged to users according to the rates of their mobile phone provider.



Important: the manufacturer reserves the right to make all technical and manufacturing modifications deemed necessary without prior notice.



DISPOSING OF OLD ELECTRICAL AND ELECTRONIC EQUIPMENT

This symbol on the product or on its packaging indicates that this product cannot be treated as household waste. On the contrary, it must be taken to a specific collection centre for recycling electrical and electronic equipment, such as:

- points of sale, if a new product is bought, similar to that being disposed of
- local collection points (waste collection facilities, local recycling facilities, etc.).

By making sure the product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inadequate disposal of this product. Recycling materials will help conserve natural resources. For more detailed information about recycling this product, please contact the local office in your area, the household waste disposal service in your area or the shop where you purchased this product.

Installation in an electrical panel

The Wi-Fi astronomical switch can be programmed, consulted and modified via an App on an iOS and Android smartphone or tablet via a Wi-Fi router with an internet connection. The App allows you to manage a single device or groups of devices and the option of consulting the historical management data to optimise programs and intervention times.

The "Perry Timer" App allows you to create customised programmes for each connected device. The interface is simple and user friendly.

The astronomical function allows sunrise and sunset to be performed every day of the week based on the installation location (an internet connection is required to perform astronomical interventions). Night-time pause can also be programmed, which disconnects the charge between the set times. Warning: if the night pause times exceed the sunrise and sunset times, the interventions will not be correct. If the astronomical function is deactivated, the night-time pauses will also be deactivated.

Technical specifications

Supply voltage	230 V approx. +/- 10%
Frequency	50-60 Hz
Consumption/Stand-by consumption	< 2W
Type of action:	1BSU
Output type	Potential-free changeover contact relay; 16(2)A / 250V~
Cross-section of the cables to the terminals	1...6 mm ²
Power reserve	72 hours
Minimum charging time	12 hours
Max no. of night-time pauses	N° 15
Minimum settable time	1 minute
LED signal	Wi-Fi LED Relay status LED
Rated impulse voltage	2,5kV
Software	class A
Protection rating	IP20 - IP40 installation on back panel
Type of insulation	Class II
Clock precision	+/- 0.5 sec/day at 25 °C
Rate of pollution	2
Installation	- in an electrical panel on a DIN rail - on the back panel (with an optional KIT)
Operating temperature	from 0 °C to +50 °C
Storage temperature	from -10 °C to +65 °C
Type of use	Civil / tertiary / industrial
Dimensions (LxWxH)	35 x 60 x 90 (2 DIN modules)

Maximum controllable power

Max switchable power				
3500 VA for single contact	2300W	700W	290W (total capacity 35 µF)	105W (7 x 15W)

Salient features

- The astronomical function allows sunrise and sunset to be performed every day of the week based on the installation location.
- Up to 15 night-time pauses can be entered
- Programmable from an iOS and Android smartphone and tablet
- Button for manual control and reset
- Wi-Fi LED
- Relay status LED
- 72-hour charge reserve
- The device must be connected to Wi-Fi and internet for sunrise/sunset intervention.
- Chronology: available only when the device is ONLINE.
- Back panel installation with an optional accessory KIT

IMPORTANT: overlapping programs cannot be entered.

If a partially or fully overlapped program is entered, the user will be asked to delete the older program to save and execute the more recent one.



IMPORTANT: for the operating and system modes of the Wi-Fi control system and for correct installation, also see the specific manual of the APP.

Download the manual from the website: <http://www.perry.it/it/prodotto/1io-iawf0102.aspx> or go directly to the website using the QR code at the side:



INSTALLATION

Radio range warnings

During installation, some precautions must be taken in order not to limit or, in some cases, inhibit the range of the radio waves between the Router and the connected devices.

If there are no obstacles between the devices and the Router, the "open air" range is approximately 70 m; indoors with the presence of walls, the range is approximately 20 m.

The radio range decreases significantly when there are obstacles between the elements. This reduction varies to different extents, depending on the type of material of the walls or the obstacles to be crossed.

Also the presence of interference of electromagnetic origin can reduce the indicated radio range.

At the side are a few examples of reduction related to the materials, which impact the flow in "Open air" as declared above.

THICK VEGETATION

trees, hedges, shrubs, etc.
radio range reduction 10% ÷ 25%



WOOD OR GYPSUM WALLS

radio range reduction 10% ÷ 30%



BRICK OR STONE WALLS

radio range reduction 40% ÷ 60%

REINFORCED CONCRETE WALLS

radio range reduction 50% ÷ 70%

METAL WALLS and/or FLOORS
radio range reduction 65% ÷ 90%





Once the Wi-Fi astronomical switch is installed in an electrical panel, inaccessibility to the terminals without special tools must be guaranteed.



Programmable even without an internet connection using a shared Wi-Fi network



IMPORTANT!
the **FIRST CONNECTION** must be carried out in the presence of a Wi-Fi network connected to the Internet.



INTERNET



refer to the APP manual to download the APP:
Perry Timer

ELECTRICAL CONNECTIONS

Description of terminals:

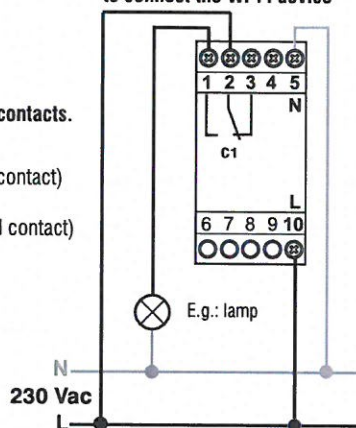
230V~ power supply
terminal 5 = N (Neutral)
terminal 10 = L (Line)

Note: potential-free relay changeover contacts.

relay (C1)
terminal N° 1 = NO (normally open contact)
terminal N° 2 = C (common)
terminal N° 3 = NC (normally closed contact)

The electrical connections must only be implemented after having disconnected the 230V~ power supply.

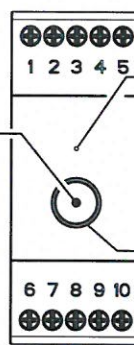
Wiring diagram to connect the Wi-Fi device



CONTROLS AND SIGNALS

Button to manually control the Wi-Fi astronomical switch

- quick press: command to switch the relay status (ON / OFF)
- pressed for 5 s (first switch-on) command to search for a Wi-Fi network to connect to.
- pressed for 5 s (device already connected to the network) RESET command.



The blue status LED of the Wi-Fi network

Device status	LED signal
Waiting to connect to the Wi-Fi network	flashing fast
Connected to the Wi-Fi network	off
Problems with the Wi-Fi network	fixed

Red relay status LED

indicates whether the relay is on or off. When the relay is ON, the LED will be on; when the relay is deactivated, the LED will be off.

CONNECTION OF THE Wi-Fi DEVICE TO THE APP

Log in to the App with the personal credentials. If you do not have the credentials, register (see the APP manual)

Note: in case of problems with the Wi-Fi network, it will also be possible to associate the device to the APP using the AP mode (see description in the APP manual)

- Follow the procedure of the APP step-by-step and associate the Wi-Fi astronomical switch to the App: «Add device»
- Once the association of the Wi-Fi device has been confirmed, proceed with the programming as described in the APP manual.

RESET



IMPORTANT! It is recommended for the installer or expert user to perform the RESET as this deletes any previous settings and programs.

To reset the Wi-Fi astronomical switch to the factory settings, run the Reset function by keeping the button on the front of the Wi-Fi astronomical switch pressed for 5 seconds.

IMPORTANT: the astronomical switch loses the association with the APP, all programming is deleted and the device is set back to the factory default settings.

Note: it will also be possible to delete the programming and/or association of the device from the APP (see APP instructions).



RESET:

press and hold the button at the front for 5 seconds

OPERATION WITH NO POWER

If the 230V~ power is disconnected (e.g. a blackout), the astronomical switch disables the relay; the current date and time are kept updated by the reserve charge of over 72 hours.

The language, programs and all previously entered settings are saved in a permanent memory.

IMPORTANT: sunrise and sunset times are not updated if there is no internet connection.

If power is interrupted for more than 72 hours, the current date and time update cannot be guaranteed. When power and the internet connection return, the current date and time will be automatically updated.

SIMPLIFIED EU DECLARATION OF CONFORMITY

The manufacturer declares that the type of radio equipment indicated below complies with Directive 2014/53/EU (RED).

The full text of the EU declaration of conformity is available at the address shown on the label:

Manufacturer, Fabricat, Fabrikant, Fabricante, Fabricante:
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Type, Typen, Tipo: **110IAWF0102** Series, serie: **V001**

