



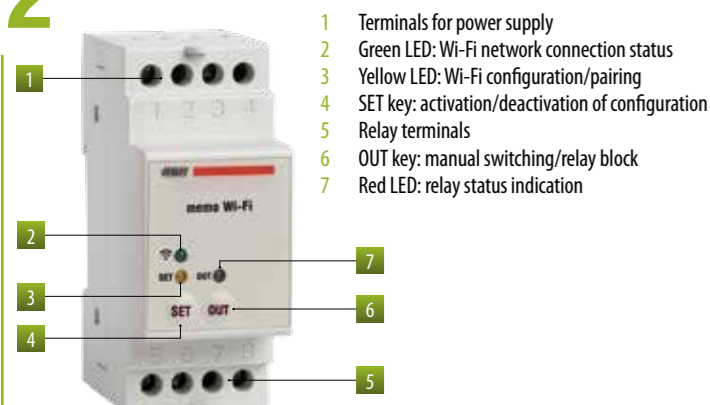
Mod. **memo Wi-Fi**

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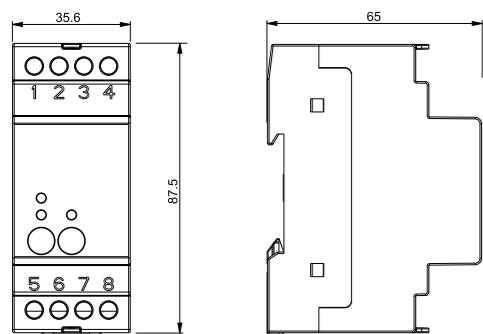


Vemer S.p.A.  
1 - 32032 Feltre (BL) • Via Camp Lonc, 16  
e-mail: info@vemer.it - web site: www.vemer.it

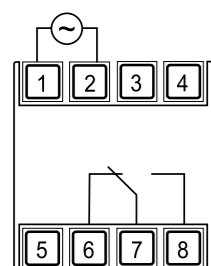
## 2 INSTRUMENT DESCRIPTION and DIMENSION



- 1 Terminals for power supply
- 2 Green LED: Wi-Fi network connection status
- 3 Yellow LED: Wi-Fi configuration/pairing
- 4 SET key: activation/deactivation of configuration
- 5 Relay terminals
- 6 OUT key: manual switching/relay block
- 7 Red LED: relay status indication



## 3 CONNECTION DIAGRAM



Information to users pursuant to art. 14 of the directive 2012/19 / EU of the European parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE)

If the crossed-out bin symbol appears on the equipment or packaging, this means the product must not be included with other general waste at the end of its working life.

The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one.

Products for disposal can be consigned free of charge (without any new purchase obligation) to retailers with a sales area of at least 400 m<sup>2</sup>, if they measure less than 25 cm.

An efficient sorted waste collection for the environmentally friendly disposal of the used device, or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health, and encourages the re-use and/or recycling of the construction materials.

04-2023

## REFERENCE STANDARDS

EU CONFORMITY DECLARATION  
Vemer declares that the device complies with the Community Directive 2014/53/EU (RED) with reference to the following standards:  
• EN 60730-2-7 • ETSI EN 301 489-1 • ETSI EN 301 489-17 • ETSI EN 300 328  
The full text of the EU Conformity Declaration is available at www.vemer.it address.

## 1 User manual

### TIME/ASTRONOMIC SWITCH WITH WIFI MODULE

⚠ Read all instructions carefully

Electronic digital switch for the management of electrical loads over time through the relay (channel) available on board. Allows time programming (periodicity: daily or weekly) or astronomical. The integrated Wi-Fi module allows you to control the device remotely using your smartphone or tablet. It is necessary to connect the device to the home router and install the appropriate app on your smartphone or tablet, free available for Android and iOS devices. The switches memo Wi-Fi perform actions of 1B type and are intended to operate in environments with III overvoltage category and pollution degree 2 in accordance with EN 60730-1 standard.

Code	Model	Description
VE780700	memo Wi-Fi	Daily/weekly/astromonical time switch with 1 relay and Wi-Fi interface

### SAFETY WARNINGS

During product installation and operation it is necessary to observe the following instructions:

- 1) The product must be installed by a qualified person, strictly in observance of the connection diagrams shown in this manual.
- 2) The product must be installed and activated in compliance with current electric systems standards.
- 3) After installation inaccessibility to the terminals without using dedicated tools must be guaranteed
- 4) Do not use the product for anything other than the indicated purpose.
- 5) The product must be installed in an adequately protected closed electrical panel.
- 6) In the supply network there must be a bipolar disconnection.
- 7) In the electrical system upstream of the product must be installed a protection device against the overcurrents.
- 8) Before accessing the connection terminals, make sure that the leads are not live.
- 9) Do not connect or feed the product if any part of it is damaged.
- 10) The product can be used in environments with Measurement Category III and Pollution degree 2, according to the Standard EN 60730-1

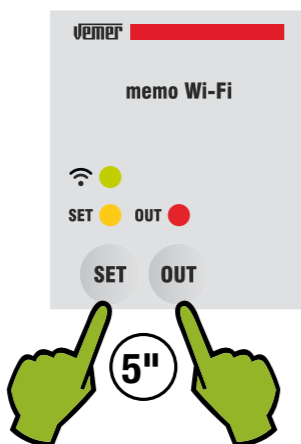
### TECHNICAL FEATURES

- Power supply: 110 ÷ 240 Vac 50/60 Hz
- Power consumption: 4.7 VA (1,5 W)
- Power reserve in case of blackout: 72 ore
- Output: 1 monostable relay with changeover contacts and maximum switchable load of 16 A / 250 V
- Terminal block for cables with maximum cables section of 2.5 mm<sup>2</sup>
- Storable programs: 60 events
- Communication interface: Wi-Fi
- Operating frequency band: 2.4 GHz IEEE 802.11 b/g/n
- Maximum transmitted radiofrequency power: 18.3 dBm
- LED: 3 Operation status LED
- Keypad: 2 keys for configuration and forcing of relay output
- Operating temperature: -20°C ÷ 50°C
- Operating humidity: 20 ÷ 90% non condensing
- Storage temperature: -20°C ÷ 70°C
- Insulation: reinforced between accessible parts (front) and all the other terminals
- Container: 2 DIN modules
- Protection degree: IP20

## 4 DEVICE RESET

Perform a reset to delete the settings and programs entered and return the device to the factory default (excluding the network settings for remote control which can be reset using the procedure described in Box 11).

To carry out the reset, hold down the SET and OUT keys simultaneously (at least 5 seconds) until all the LEDs go off.



## 5 INSTALLATION AND PRELIMINARY OPERATIONS

- Install and connect the device respecting the connection diagrams shown in this manual.

• Make sure that:

1. the Wi-Fi Router and/or Access Point are correctly turned on and at a distance such as to ensure a stable communication signal with the device.
2. the Router has full access to the Internet and there are no restrictions on navigation (firewall settings, parental controls,...)
3. the frequency band is also enabled in the Router settings 2.4 GHz (these devices do not support 5 GHz band)
4. the security settings of the Router are set in WPA / WPA2 or WPA2 (devices do not support WPA3 settings)
5. the smartphone used for the configuration is connected to the same Wi-Fi network to connect the device to

- Create a Vemer account:

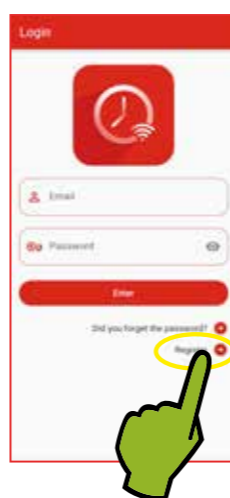
1. Install and start the **memo Wi-Fi** app on your smartphone (or tablet)

2. On the login page select **"Register"** and enter "e-mail" and "password"

Note: for security reasons, it is recommended to choose a different password from the one used to access your e-mail account

3. Check your e-mail box, confirm the activation of the account by clicking on the link contained in the e-mail sent by the system

4. Log in by entering the e-mail and password chosen during registration

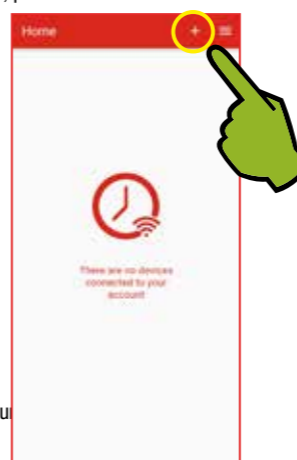


## 6 CONFIGURATION REMOTE CONTROL

To configure the device using a smartphone, proceed as follows:

1. Make sure your phone is connected to the home Wi-Fi network where the device will be connected.
2. Start the App and press the "+" key at the top right of the Home page.
3. On the **memo Wi-Fi** keep the SET key pressed until the yellow LED (SET) starts flashing rapidly in order to activate the configuration mode. Now wait for the yellow LED (SET) to start flashing slowly before proceeding.
4. On the **App**:
  - a. follow the instructions given in the wizard and press **Forward**
  - b. press the **Search networks** key to open you phone's Wi-Fi settings
  - c. select the **"MV..."** network from the list to connect to the network generated by the device (the yellow LED will turn on steadily to indicate successful connection between the app and the device)
  - d. once connected, return to the application screen and then press the **Continue** key
  - e. now enter the **complete name (SSID)** and the password of the Wi-Fi network to which to connect the device, taking to be faithfully to type all the characters (uppercase, lowercase, spaces, digits) that compose them. Press **Continue** to proceed.
5. On the **memo Wi-Fi** check that the green LED starts flashing and after a while becomes steady to indicate the correct connection with the home network.
6. On the **App**:
  - a. follow the instructions in the wizard making sure that the phone has reconnected to the home Wi-Fi network  
Note: if the connection does not take place automatically, open the phone's network settings and force the connection to the home Wi-Fi network
  - b. confirm by pressing the **Connect** key
  - c. enter a name that helps to identify the memo Wi-Fi and confirm with **Save**.

The configuration procedure is finished, at this point: the **App** displays the list of devices associated with your account, among which the newly associated device must also appear on the **memo Wi-Fi** the green LED will be on steady.



## 7 LED SIGNALS

The 3 LEDs on the device allow you to understand the operating status of the device, according to the types of switch on described in the table:

LED	Type of switch on	Operating status
<b>GREEN</b> 📶	Steady on	Normal operation
	Fast flashing	Wi-Fi network search (during the remote control configuration operation)
	Slow flashing	Trying to connect to the Wi-Fi network (during the remote control configuration operation)
	Single flash	Wrong password of the Wi-Fi network entered
	Double flash	No Wi-Fi connection or wrong Wi-Fi network name (SSID) entered
	Triple flash	Generic Wi-Fi network connection error
	Quadruple flash	No Internet connection
	Short shutdown	Time not synchronized
<b>YELLOW (SET)</b>	Steady on	Connection with smartphone successful (during the remote control configuration operation)
	Fast flashing	Access Point mode preparation for remote control setup
	Slow flashing	Access Point mode active for remote control configuration
<b>RED (OUT)</b>	Steady on	Relay status ON
	Off	Relay status OFF
	Short switch on	Relay status LOCK OFF
	Short switch off	Relay status LOCK ON
<b>GREEN</b> 📶 + <b>YELLOW (SET)</b>	Simultaneous short switch on	No network configuration
	Simultaneous steady on	Starting and/or resetting device
<b>GREEN</b> 📶 + <b>YELLOW (SET)</b> + <b>RED (OUT)</b>	Sequence	Device reboot
	Simultaneous fast flashing	Local operation disabled (displayed when a key is pressed)
	Simultaneous slow flashing	Internal memory error

## 8 KEYBOARD OPERATION

The keys on the device allow you to carry out the operations described in the table, according to the type of pressure exerted:

KEY	Pressure type	Function
<b>SET</b>	Long pressure (> 3 sec)	Activation of Access Point mode for remote control configuration
	Short pressure	Forcing communication with the server
	Short pressure (during the remote control configuration operation)	Exit Access Point mode for configuring remote control
<b>OUT</b>	Long pressure (> 3 sec)	Lock (or unlock) the switching of the relay
	Short pressure	Manual relay ON/OFF switching
<b>SET + OUT</b>	Long pressure at the same time (> 5 sec)	Reset settings: reset all settings to factory default (excluding network settings for remote control)
	Long pressure at the same time (> 5 sec) (during the remote control configuration operation)	Deleting account association and resetting network settings to factory default (excluding settings, schedules, relay status)

## 9 PROGRAMS DESCRIPTION

### Programs types

- ON/OFF program: is composed of a switching of the ON relay and of a subsequent switching of the OFF relay. It can have a daily period (everyday with the same modes), weekly (every week with the same modes).
- PULSE ON or PULSE OFF program: is an ON or OFF relay switching for a maximum duration of 59 seconds. It can have a daily period (everyday with the same modes), weekly (every week with the same modes).
- HOLIDAY program: is a period of time delimited by a start time and an end time within which all programmed switchings (of that channel) are disabled. The relay is in OFF position (OFF holiday) or in ON position (ON holiday).

### Kind of program

- TIME: executes ON/OFF, impulse ON, impulse OFF, holiday programs at the set times.
- ASTRO: executes programs ON/OFF, impulse ON, impulse OFF, holiday at the set times included in the time interval delimited by sunset and sunrise. ON switchings set before sunset are performed at sunset, relay OFF switchings set after sunrise are performed at sunrise. Exceptions are the On Sunset and Off Sunrise programs (in the Time and Delay/Advance cases) which can have switching on or off during the day.

NOTE: The sunset and sunrise times are automatically calculated by the device according to the geographic coordinates set during installation. Instead of the sunrise and sunset times, it is possible to use the times of the civil twilight that can be set via the App.

⚠ **Important:** can't coexist ON pulses and OFF pulses (if an ON pulse is already present, it's not possible to save a OFF pulse program and vice versa).

⚠ **Important:** can't coexist holiday ON programs and holiday OFF programs (if a holiday ON program is already present, it's not possible to save a holiday OFF program and vice versa).

⚠ **Important:** the device can be used indifferently as a time switch or as an astronomical switch, but cannot be of both types at the same time. Therefore, it is not possible to save astronomical programs if there are already time programs (and vice versa).

## 10 HOW TO DO IN CASE OF REPLACEMENT OF THE ROUTER

If the Router/Access Point of the home network needs to be replaced or if it is necessary to change the network settings entered in the device (network name SSID or password) it is necessary to proceed with the device configuration described in BOX 6.

⚠ **Important:** Do not remove/delete the device icon from the user's application associated to the memo WiFi before proceeding with the configuration procedure.

## 11 HOW TO DELETE THE DEVICE FROM YOUR ACCOUNT AND RESET NETWORK SETTINGS

If it is necessary to disassociate/delete a device from your user and/or reset the network settings of the device, proceed through one of the following two ways to do as an alternative:

- a. on the **App** access at the "HOME" page, locate the device you want to disassociate/delete, select the **Elimina** option in the device menu and confirm.
- b. on the **memo Wi-Fi** press and hold the SET key until the yellow LED (SET) starts flashing quickly to activate the configuration mode. Now wait for the yellow LED (SET) to start flashing slowly. Press and hold the SET and OUT buttons simultaneously (at least 5 seconds) until all the LEDs simultaneously steady on.

At the end of one of the two operations described above, the yellow and green LEDs on the device will simultaneous short switch on to confirm that the elimination has been completed.

⚠ **Important:** In this condition, the memo Wi-Fi relay status is OFF and only manual switching will be possible via the device keyboard. Reconfigure the device (see Box 6) to restore normal operation.

With the **memo Wi-Fi** App it is possible to control your device remotely, easily and intuitively.

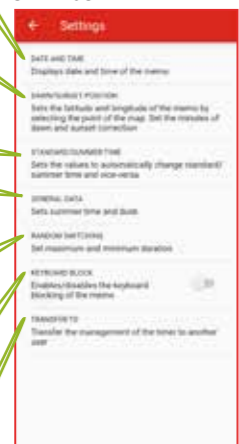
**PROGRAMS**



Allows to add a program by selecting it from the Program Archive

Allows to check the details of the selected program and, if pressed for a long time, to delete the program from the device

**SETTINGS**



Allows to check the date, time synchronized on the device

Allows to set the geolocation of the device and to correct the calculated values of sunrise and sunset

Allows to set the values for the automatic change of daylight saving time/winter time

Allows to set the general data of the device

Allows to set the duration of random switching\*

Allows to activate/deactivate the operation of the keyboard of the device

Allows to transfer control of the device to another user

**INFO DEVICE**



Allows to assign a name to the device and view the serial number

Allows to view and to reset the hour counter of relay operation

Allows to view device information: ID, MAC address version, Wi-Fi signal strength

**RELAY OUTPUTS**



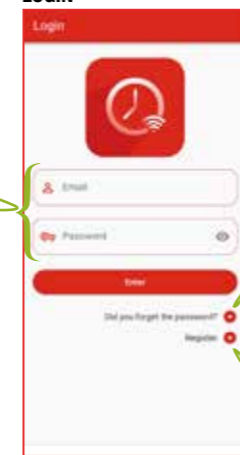
Allows to lock/unlock the operating status of the relay

Allows to enables/disables the random switching\* of the relay

Allows to manually control the relay output

\*NOTE: The "random switching" function allows the relay to switch automatically and at random time intervals. In the Settings menu it is possible to define the minimum and maximum duration of the time interval between two random switchings. By default, the minimum duration is 1 minute, the maximum duration is 5 minutes.

**LOGIN**



Enter the e-mail and password chosen during registration (see BOX 5)

It allows to recover the login credentials if forgotten them

Allows to create a new Vemer account (see BOX 5)

**HOME**



Identify device status (see table below)

Allows to start the configuration procedure for a new device (see BOX 6)

Allows to access the application menu

Allows to rename or delete the device (see BOX 11)

**Icons legend:**

- Red icon: indicates an OnLine device associated with your account
- Black icon: Indicates an OffLine device associated with your account
- M Gray icon with red "M": Indicates a device received from another user
- M Gray icon with black "M": Indicates a device transferred to another user

**APP MENU**



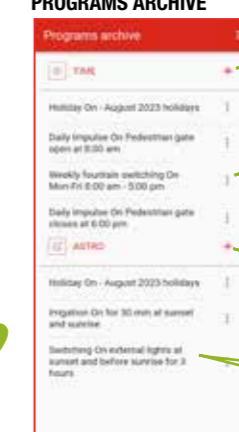
Allows access to the archive of programs saved on the Cloud

Allows to check and/or delete the Vemer account registered

Allows to logout of the application

Allows to go back to the HOME page with the list of devices

**PROGRAMS ARCHIVE**



Allows to create a new time program (see BOX 9)

Allow to rename, modify, delete or send the selected program to one or more devices that are Online

Allows to create a new astro program (see BOX 9)

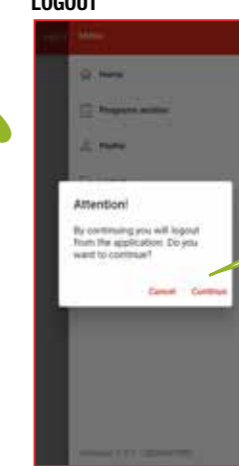
Allows to check the details of the program

**ACCOUNT**



Allows to delete from the Cloud server the Vemer account created by registration (as required by GDPR)

**LOGOUT**



Allows to logout of the application to login with another user (see BOX 5)