Time/astronomical switches

MEMO BT GPS

DIMENSIONS (mm)

CONNECTION DIAGRAM

Modular digital time switches for the management of electrical loads over time with maximum precision. They allow a time programming with daily, weekly or annual or astronomical periodicity; with memo BT2 GPS and memo BTY2 GPS is possible to associate a different programming to each channel. It is also possible to connect via BUS a GPS module, GEO-2 (available as an accessory), which allows the exact acquisition of the time, date and geographical position through the satellite system, ensuring maximum accuracy over time. The Bluetooth interface allows pairing with smartphones and tablets to transfer programs created thanks to the dedicated app. The backup battery allows you to keep the date and time, settings and schedules even in the absence of power and can be replaced when it runs out through the cover on the back of the instrument.
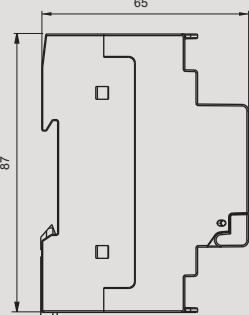
1. Wide backlit display to visualize date, time and relay status
2. Sealable cover
3. Cover on the back for battery replacement
4. Bluetooth integrated interface for exchanging program from and to the dedicated app
5. GEO-2 additional GPS module (VE789900) for receiving time and position from satellites
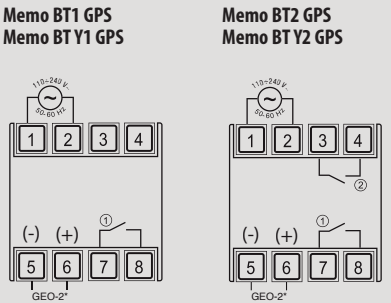6. Free app for iOS and Android smartphone and tablet

Available on the App Store
Available on the Google play

Memo BT GPS + GEO-2

Front view

Side view

35
87

65

Diagram

Memo BT1 GPS
Memo BT Y1 GPS

Memo BT2 GPS
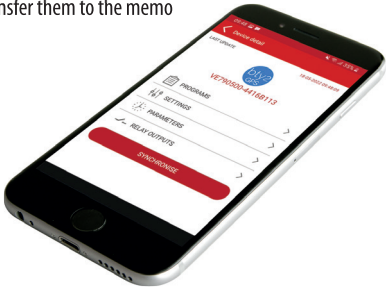**Memo BT Y2 GPS**

1 2 3 4
5 6 7 8
(-) (+)
GEO-2*

1 2 3 4
5 6 7 8
(-) (+)
GEO-2*

* Optional GPS module input (not isolated). For connections to the GEO-2 refer to the specific instructions of the module.

TIME AND MANAGEMENT

TECHNICAL INFORMATION

DAILY/WEEKLY/YEARLY SWITCHES WITH BLUETOOTH INTERFACE

- Time programs for load management within 24 hours
- Astronomical programs for load management between sunset and sunrise
- Daily, weekly, yearly (ON, OFF, impulse, delay) or holiday programming
- Automatic acquisition of date, time and geographical position with the GEO-2 module
- Random switching function of the outputs
- Relay manual override (temporary or permanent)
- Automatic summer time update
- Correction of calculated sunrise and sunset time: ± 120 minutes
- Battery life: 5 years (low battery warning replaceable)
- Bluetooth BLE 4.1 interface
- Keypad lock by password
- Menu in 5 languages: Italian, English, Spanish, German, French

What you can do with the app
- Create programs directly on the smartphone
- Transfer programs created on several time switches memo
- Acquire programs from one memo and copy them to other memo (copy / paste)
- Switch relay outputs manually
- Acquire settings (date, time, coordinates) automatically and transfer them to the memo

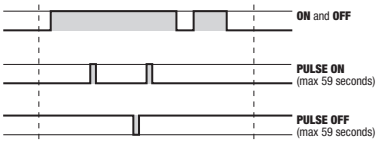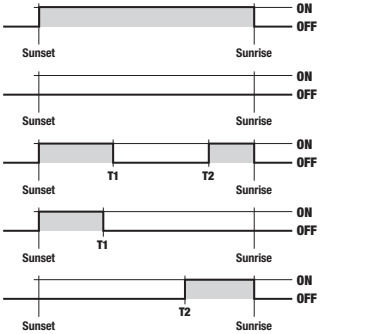| Code	Model	Description	n. relays
VE789700	memo BT1 GPS	Daily/weekly time switch with Bluetooth and GPS	1
VE789800	memo BT2 GPS	Daily/weekly time switch with Bluetooth and GPS	2
VE790400	memo BT Y1 GPS	Daily/weekly/yearly time switch with Bluetooth and GPS	1
VE790500	memo BT Y2 GPS	Daily/weekly/yearly time switch with Bluetooth and GPS	2
VE789900	GEO-2	GPS module for time reception and satellite position	-
VE790000	Set memo BT1 GPS	Kit consisting of memo BT1 GPS + GPS module	-
VE790100	Set memo BT2 GPS	Kit consisting of memo BT2 GPS + GPS module	-
VE790600	Set memo BT Y1 GPS	Kit consisting of memo BTy1 GPS + GPS module	-
VE790700	Set memo BT Y2 GPS	Kit consisting of memo BTy2 GPS + GPS module	-

GENERAL CHARACTERISTICS

Power supply		V AC	110÷240 (50/60Hz)
Absorption:	memo BT1 GPS, memo BTY1 GPS	VA(W)	3.5 (1)
	memo BT2 GPS, memo BTY2 GPS	VA(W)	5.5 (1.5)
Relay capacity at 250 V AC		A	16 (10)
Incandescent lamps		W	2000
Fluorescent lamps (compensated)		VA	250
Low voltage halogen lamps		VA	1000
Halogen lamps (at 240 V)		W	2000
Low consumption lamps (CFL)		VA	200
Low consumption lamps (Downlights)		VA	200
LED		VA	25
Operating accuracy (without GEO-2)			± 0,5 seconds/day at 25°C
Autonomia			5 years (Lithium battery CR-2032)
Charge reserve (for battery replacement)			1 minute
Switchings in case of power failur			no
Programming resolution			1 minute
N. programs (events)			120
N. programs (events)		℃	-20 ÷ 50
Storage temperature		℃	-20 ÷ 70
Degree of protection			IP20 / IP41 (on the front panel)

Time programming

ON and OFF
PULSE ON (max 59 seconds)
PULSE OFF (max 59 seconds)

Astronomical programming

Sunset — Sunrise (ON / OFF)

T1 and T2 can be:
1. a precise hour
2. a delay compared at sunset (**T1**) or an advance respect at sunrise (**T2**)
3. a pulse with a maximum duration of 59 seconds at sunset (**T1**) or at sunrise (**T2**)

REFERENCE STANDARDS
Compliance with Community Directives : 2014/53/EU (RED) is declared with reference to the following standards: EN 60730-2-7;ETSI EN 301 489-1; ETSI EN 301 489-17; ETSI EN 300 328