

Dear customers, thank you very much for purchasing one of our Uniteck products. Please carefully and thoroughly read all the instructions before using the product.

## DESCRIPTION

Unitimer is a 12V or 24V (depending on model) electronic timer is ideal for your photovoltaic or grid installations.

Unitimer automatically and precisely turns ON or OFF until 16A electrical devices using its integrated digital clock.

Unitimer allows you to monitor your lighting, watering, fountain, prewarming, light display, alarm, video surveillance...

Unitimer presents many advantages :

- up to 17 ON/OFF possible settings with one second accuracy, which can be set for a specific day, for the weekend, for the whole week or for only certain days of the week.
- LCD Display with transparent cover protection.
- 2 possibilities of connection (NO or NF) for maximum of safety according to your applications and /or to optimize unitimer's self-consumption.
- integrated lithium battery to preserve your settings in case of power failure.

## INSTALLATION – FIXING

Unitimer has been designed for an indoor use. 

It can be fixed on DIN rail 35mm of your electrical panel.

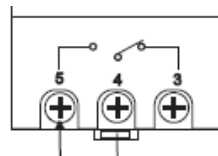
- ❶ Connect your battery to the timer :
  - Positive cable on terminal 1
  - Negative cable on terminal 2

Led ON lightens.



- ❷ Unitimer offers 2 ways of connection to choose according to your application :

- **normally open (NO)**, on 4 & 5 terminals : in case of default, power will be switched off. This connection is recommended for watering application for example.
- **normally closed (NC)**, on 3 & 4 terminals : in case of default, your electrical devices will still be powered.



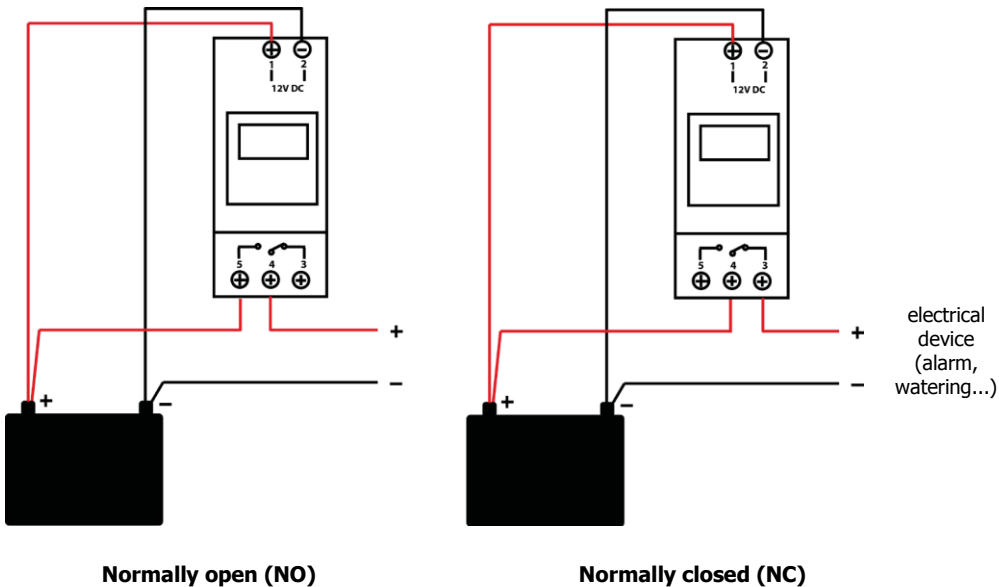
## INSTALLATION AND CONNECTION

You can also choose your connection (NO or NC) in order to optimize your electrical consumption. Indeed, the electrical consumption of the relay varies according to its status (ON or OFF) :

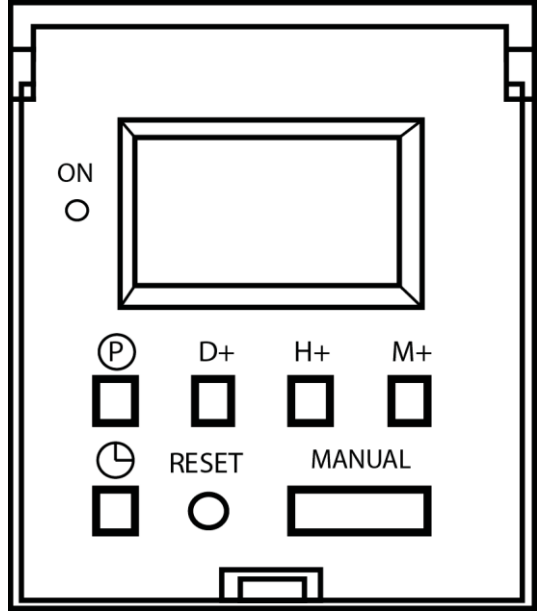
- ON : <math>< 0,60W</math>
- OFF : <math>< 0,08W</math>

For a 2 hours light activation per day, it is better to choose a NO connection ( $3W = 22H \times 0,08W + 2H \times 0,6W$ ), than a NF connection ( $13,4W = 22H \times 0,6W + 2H \times 0,08W$ )

### WIRING DIAGRAM



FUNCTIONNING – CONTROL PANEL



CONTROL PANEL DESCRIPTION



Program button : To access to the programs and settings



D+ button : To set the days of the week



H+ button : To set hour



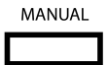
M+ button : To set minute



Timing button : To set time and current date



RESET button : Insert a thin needle (pencil tip for example) to reset programs and settings.



Manual button :  
 - To select ON, OFF or auto  
 - To delete a program

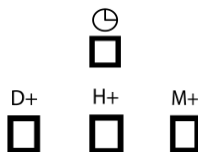


LED ON light : Lights on when the normally open circuit is closed

## PROGRAMS

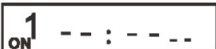
### CURRENT TIME AND DATE SETTING

- 1 Press and hold the clock button
- 2 Set the time and the date thanks to D+, H+, and M+ button



### EVENTS PROGRAM

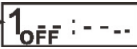
#### Program start time

- 1 Press P button. The screen displays : 
- 2 Press D+ button to set operating day or days according to your wishes :
  - 7j/7
  - 6/7 (Sunday excluded)
  - 5/7 (weekend excluded)
  - weekend
  - 1day per week
  - Monday/Tuesday/Wednesday
  - Thursday/Friday/Saturday
  - Monday/Tuesday/Wednesday
  - Thursday/Friday/Saturday

NB :  
 Mo = Monday  
 Tu = Tuesday  
 We = Wednesday  
 Th = Thursday  
 Fr = Friday  
 Sa = Saturday  
 Su = Sunday



- 3 Press H+ y M+ buttons to adjust the start time
- 4 Once the configuration <sup>1</sup> is done, press on the P button again.

The screen displays : 

- 5 Press the D+ button in order to see the day(s) of the week chosen (see (2))
- 6 Press H+ and M+ buttons to adjust the desired end time
- 7 Once the settings done, press on the P button

The screen displays : 

- 8 Repeat the same procedure for the desired number of actions (17 maximum)

- 9 Press on the clock button to launch the programs set earlier



## VERIFICATION OR MODIFICATION

- ❶ Press the P button to see all the operations (start time and end time for each program)
- ❷ Press the Manual button to delete the operations one by one

To reset all programs press the reset button



## WARNINGS AND ADVICES

- Use Unitimer in a well ventilated area, sheltered from rain, humidity, dust and condensation.
- Follow manufacturer's instructions and safety procedures of the battery. In case of doubt, consult your retailer or installer.
- Batteries can produce flammable gas. Avoid flames, sparks.
- During battery maintenance (GEL battery excluded), there is a risk of acid leaks so protect yourself.
- Never short circuit + and - of the battery or cables: risk of explosion or fire.
- Maintenance: check the wiring and all connections at least once a year.
- All tasks must be realised in compliance with the country regulations in force regarding electricity.
- This device is not designed to be used by people (including children) whose physical, sensory or mental abilities are reduced, nor by people lacking of experience or knowledge unless they have benefited from supervision or prior instructions concerning the use of the device given by a person responsible for their safety.
- Please keep an eye on children to ensure they do not play with the device.

## PICTOGRAMS



Device in accordance to applicable European Union directives



Caution! Before using, read the instruction manual



Product under selective collection- Do not throw it in a household waste.



Double-insulated appliance : Do not connect to the ground

**IP44**

Protected against foreign bodies larger than 1 mm and against splash water from all directions.

## COMPLIANCES STATEMENT

**UNITIMER 16.12 / 16.24** is manufactured in compliance with the following European directives:

- Low voltage directive: 2006/95/CE from the 12/12/06.
- EMC directive: 2004/108/CE from the 15/12/2004- 03/05/1989.

It complies with the harmonised standards:

- IEC 60730

CE marking date: January 2016.

01/01/2016  
Société Uniteck  
Immeuble le Cassis  
8 Avenue de Rome  
34350 Vendres  
France

**Yoann Fourmond**  
Directeur Général

## WARRANTY

Warranty does cover any defect, manufacturing flaws for 1 year from the date of its purchase (Parts and labour).

Warranty does not cover:

- Normal wear of parts (Ex.: cables, etc.).
- Voltage errors, incidents due to inappropriate uses, fall, disassembly or any damages due to transport.

In case of failure, return the device to your distributor by attaching :

- the dated proof of purchase (receipt, bill...)
- explanatory note of the failure

Caution : Our after-sales service does not accept postage due returns.

After the warranty, our after-sales service ensures repairs after acceptance of a quotation. After-sales service contact :

Société Uniteck, Immeuble le Cassis, 8 Avenue de Rome

34350 Vendres France

E-mail: [ctc@uniteck.fr](mailto:ctc@uniteck.fr)

Fax: +33 (0)4 88 04 72 20

## TECHNICAL SPECIFICATIONS

	<b>Unitimer 16.12</b>	<b>Unitimer 16.24</b>
Volter range	10-15V	20-30V
Maximum intensity	16A	16A
Number of programs	17 ON/OFF	17 ON/OFF
Self consumption		
- Relay status ON	>0,6W (50mA)	>0,6W (25mA)
- Relay status OFF	>0,08W (8mA)	>0,08W (4mA)
Protection rating	IP44	IP44
Display	LCD	LCD
Minimum interval time between 2 actions	1 minute	1 minute
Settings saving	Lithium battery (3 years)	Lithium battery (3 years)
Operating temperature	-10°C ~ 40°C	-10°C ~ 40°C
Humidity rate	35 ~ 85%	35 ~ 85%
Dimensions (mm)	86.5 × 36 × 65.5	86.5 × 36 × 65.5
Maximum cable section	6 mm <sup>2</sup>	6 mm <sup>2</sup>