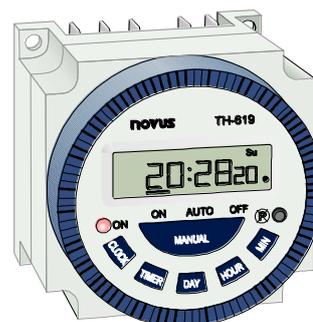




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TIMER TM-619/ TM-6331

PROGRAMABLE TIME INTERRUPTERS - USER GUIDE V4 B

1. Introduction

The Programmable Time Interrupters NOVUS are electronic devices that permit switching electrical loads (alarm, appliances, etc.) at programmed time intervals with good accuracy.

Their microprocessor let you create at most eight (8) ON/OFF programs, which can switch electrical loads at specific moments throughout the week.

They have a battery, that give to the TIMER the feature of hold the programs and run the internal clock for many weeks, even in case of power outage.

The output is consist of a relay with the terminals NO, COM and NC (SPDT) available for user. In power outage this relay will not switch, letting the output inoperative.

2. Specifications:

- POWER: de 12Vdc, 24Vdc, 110Vac or 240 Vac, 50/60 Hz; (see identification tag);
- Switching low interval: 1 minute;
- OUTPUT: Relay 16A/250Vac, resistive; 8A/250Vac, inductive;
- Operational temperature: 0 a 60°C;
- Storage temperature: -10 a 75°C;
- Light indicator for output on (when powered);
- Proper for be fixed with screw;

3. OPERATIONS MODES

There are three operation modes: **ON**, **AUTO** e **OFF**, select through the **MANUAL** key. When the **MANUAL** key is pressed, observe that the indicator (line) on the screen move upon the words ON/AUTO/OFF:

- **MODE ON:** When the indicator is upon ON the output turn on immediately and keep this status while in ON mode.
- **MODE OFF:** When the indicator is upon OFF the output turn off immediately and keep this status while in OFF mode.
- **MODE AUTO:** When the indicator is upon AUTO the output turn on and turn off based on the programs.

When the TIMER isn't powered, it turns off the output permanently.

4. UPDATING DAY/HOUR/MINUTE

Keep pressed the **CLOCK** key, then press:

- **DAY:** to update the indicated day of week;
- **HOUR:** to update the indicated hour;
- **MIN:** to update the indicated minutes;

NOTE 1: The terms MO, TU, WE, TH, FR, SA e SU, correspond to the weekdays:

MO= Monday; **TU**= Tuesday; **WE**= Wednesday;
TH= Thursday; **FR**= Friday; **SA**=Saturday;
SU= Sunday;

5. DETERMINING THE ON/OFF CYCLES

Press the **TIMER** key to access and configure the ON/OFF programs. The program number, which is at editing, is showed on the left side of the screen. See Figure 04. The first edit refers to the program 1 and determine the moment to turn on the output. Note that the message ON is showed upon the program number.

- Press **DAY** to determine the day which the output should turn on. Observe that the indication of the weekdays is changed at each time that **DAY** key is pressed:
 - **Mo, Tu, We, Th, Fr, Sa, Su** (everyday)
 - **Mo** (Monday);
 - **Tu** (Tuesday);
 - **We** (Wednesday);
 - **Th** (Thursday);
 - **Fr** (Friday);
 - **Sa** (Saturday);
 - **Su** (Sunday);
 - **Mo, Tu, We, Th, Fr** (bussness days);
 - **Sa, Su** (weekend);
 - **Mo, Tu, We, Th, Fr, Sa** (bussness days more Saturday);
 - **Mo, Tu, We** (Monday, Tuesday and Wednesday);
 - **Th, Fr, Sa** (Thursday, Friday and Saturday);
 - **Mo, We, Fr** (Monday, Wednesday and Friday);
 - **Tu, Th, Sa** (Tuesday, Thursday and Saturday);
 - **Mo, Tu, We, Th, Fr, Sa;**
- Press the **HOUR** key to determine the hour on the chosen days, in which the output turns on.
- Press the **MIN** key to determine the minutes.

Press the **TIMER** key again to determine the moment to turn off the output on the program 1. Note that the message **OFF** upon the program number. The programming of day, hour and minute is made identical of the programming of turn ON, showed before:

- Press **DAY** key to determine the days when the output is turned off.
- Press the **HOUR** key to determine the hour when the output turns off.
- Press the **MIN** key to determine the minutes.

Press the **TIMER** key again and the program number displayed will change to 2, indicating that the following adjusts refer to program 2. Configure the program 2 as the instruction above. Then access and determine the other programs, in a total eight programs.

These programs will be used by the TIMER when the operation mode selected is AUTO. In the time programmed to ON, the output turns on. In the time programmed to OFF, the output turns off.

In the case of overlapping programs, the output will act like the example showed at the figure 01. When it's already on, and came a time when some program turn off, the output turn off. When came a time in some program when turn on, the output doesn't change.

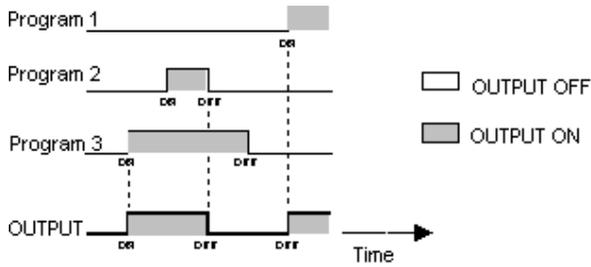


Figure 01 – Output's Behavior with overlapping programs.

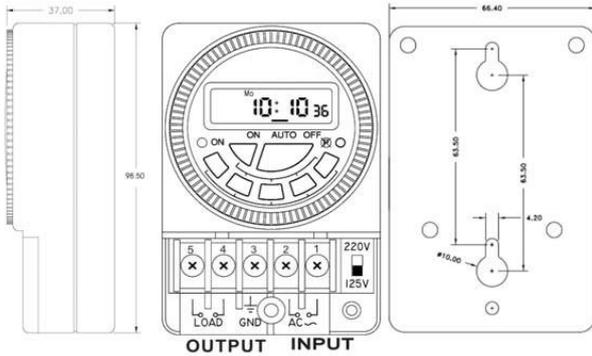


Figure 02 – Connections and back sight of Timer TM-6331.

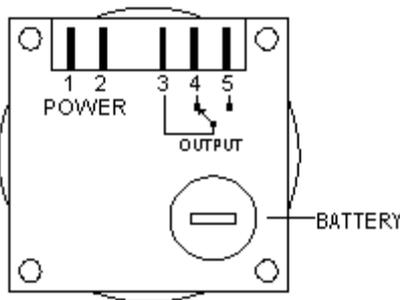


Figure 03 – The back sight of Timer TM-619.

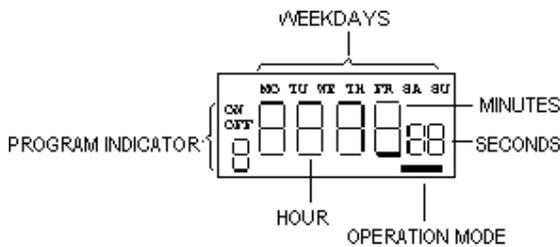


Figure 04 – Identification of Screen elements.

5. RESET

 When the **RESET** key is pressed the interrupter clock is reset and all the programs are deleted.

8. BATTERY

The programs of the Programmed Time Interrupters NOVUS are stored in a memory protected by battery, when this battery's charge is reduced a message is showed at the screen indicating that the battery should be replaced.

Use battery CR-2032.

Observe the following figures to replace the battery.

TM-619

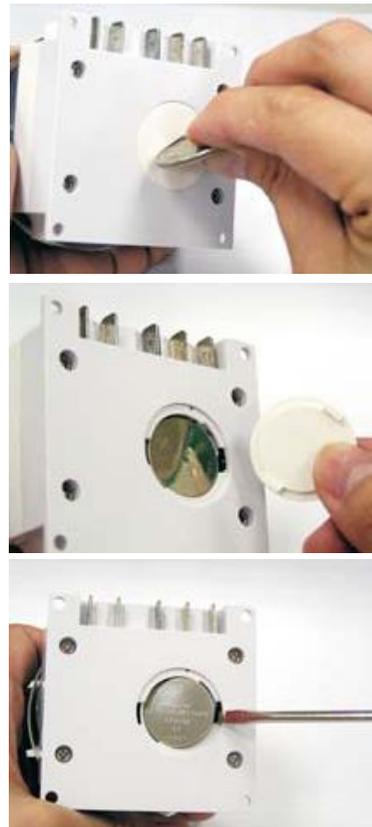


Figure 06 – Instruction to replace the TM-619's battery.

TM-6331



Figure 07 – Instruction to replace the TM-6331's battery.

8. WARRANTY

The warranty conditions are found in our website



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