

TIMER 11: INSTALLATION AND USE

1. INSTALLATION

- 1.1 For proper functioning the instrument needs an ambient temperature between -10... +55° C and 15... 80% rH. Moreover it must be installed away from contactors or cables carrying strong electrical currents.
- 1.2 The instrument is secured to the panel from the rear by means of the suitable brackets. If using the rubber gasket ("S" version), this must be interposed between panel and instrument bezel.
- 1.3 Connect the load to the relay output (1 Comm.; 2 N.O.; 3 N.C.); power supply to terminals No. 9-10. Refer to the indications on the enclosure for maximum switching power and supply voltage.
- 1.4 The unit is fitted with a back-up battery which allows the unit to work for 10 hours approximately in case of line drop-out.

Caution: where delicate or valuable products have to be maintained, the same instrument shan't be used for both control and safety function. In such case an additional instrument is recommended.

2. TIMER FUNCTION DESCRIPTION

TIMER 11... /1 (mode 1)

It's possible to program the output activation time from 00h:01m to 99h:59m. To program the time press key [pgm/set]; the LED 'on' and minutes blink. Via key [▲] or [▼] set desired value; switch to hour setting by pressing key [H↔M]. The hours blink, so press key [▲] or [▼] to program. After setting push key [pgm/set] to escape from programming.

TIMER 11... /2 (mode 2)

Same as above but it has 00m:01s to 99m:59s range.

TIMER 11... /3 (mode 3)

It allows programming of a stand-by time (off) before the output activation time (on). Press [pgm/set] to program; the LED 'off' and the stand-by minutes blink. Set desired value via key [▲] or [▼], then switch to hour setting via key [H↔M]. After programming the stand-by hours, press key [pgm/set] to enter activation time setting; the LED 'on' and the activation minutes blink. For both minute and hour setting proceed as previously explained. At the end of the operation, push key [pgm/set].

During countdown, the display shows the time left until the end of the period; it's however possible to display the all period length by pressing key [START/STOP]. In mode 1 and 3, when the time left is shorter than an hour, the display will assume minute and second resolution.

START/STOP

In mode 1 and 2, by pressing key [start] the output is switched on immediately (LED 'on' lit), while in mode 3 the stand-by time starts first (LED 'off' lit). It's possible to interrupt the program in any moment by pushing key [stop]. In this case the program is aborted and the output is off.

MANUAL MODE

It's possible to indefinitely override the output, even when the program runs, by simultaneously pressing key [☞] and [pgm/set] sequentially. The display shows 'hAnd' and the output status is chosen by pressing key [▲] (on) or [▼] (off). To leave manual mode press [☞] and [pgm/set] again.

3. TIMER 11... /4 (CLOCK MODE)

In this mode it's possible to program up to six activation periods for the output, each featuring a start (on) and end (off) time. The display shows the present time, i.e. hours and minutes separated by a flashing column and a LED shows the output status. To adjust the present time, simultaneously press key [⊙] and [pgm/set] sequentially; while the minutes blink press key [▲] or [▼] to adjust. Pass to hour setting via [H↔M], then proceed as explained above. When the operation is over, press [pgm/set] to escape.

In order to program each segment, press key [pgm/set]; the display shows 'Pr:1-' (program 1). The sign '-' after the programme number, indicates that it exists. To set the programme use [▲] or [▼], when the chosen one is selected, for instance 'Pr:4', push [pgm/set]; the start time appears, the LED 'on' and minutes blink; these latter can be set via key [▲] or [▼]. Press key [H↔M] to set the start time hours. When the start time is set, proceed to end time setting by pressing key [pgm/set]; the end time appears, the LED 'off' and minutes blink. Repeat setting procedure. When finished, press [pgm/set] again. The next segment is pointed and so forth until the sixth segment. Exit from programming occurs immediately at the end of the sixth program setting, or after 10 seconds of no key activation.

If not all six programs are exploited, it's possible to suppress the undesired ones in two ways: either by matching start and end time or by pressing [pgm/set] and [clr] after the undesired segment has been pointed (ex. 'Pr:3-', [pgm/set] and [clr], 'Pr:3').

During functioning the output status can be forced through manual control. The way of access and selection are the same as those described in TIMER FUNCTION DESCRIPTION.

WARRANTY

LAE electronic Srl warrant that their products are free of any defects in workmanship and materials for a period of 1 (one) year from date of production shown on the enclosure. LAE electronic Srl shall only repair or replace those products of which defects are due to LAE electronic Srl and recognised by their technicians. LAE electronic Srl are not liable for damages resulting from malfunctions of the products.

Defects due to exceptional operating conditions, misapplication and/or tampering will void the warranty.

All transport charges for returning the product to the manufacturer, after prior authorisation by LAE electronic Srl, and for the return to the purchaser are always for the account of the purchaser.