

AT-449 EVERYTIME TIMER

This extremely versatile unit has TWO timer periods. Timer 'A' (what happens once the unit is triggered) and Timer 'B' (what happens after timer 'A' has finished) Operates on any voltage between 12 and 24V DC. Adjustable from 1 second to 64 weeks.

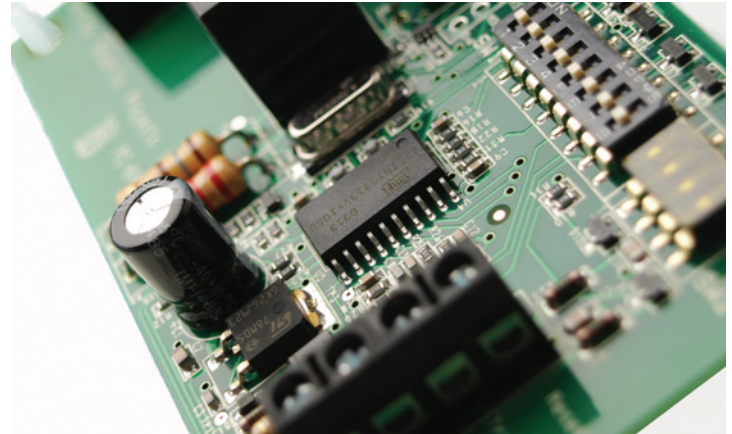
THE UNIT HAS THREE BASIC FUNCTIONS:-

- Simple timer, whereby the relay state is changed, either during or after the programmed time following a trigger. This is referred to as A time.
- Cyclic timer, whereby the on and off times of the relay can be separately defined. These times are referred to as A and B times.
- Counting of trigger inputs, whereby the relay state is changed after a set number of trigger pulses have been seen.

Seven modes of operation, edge or level trigger and clean contact.
High or low trigger level.

EXAMPLES:-

Mode 0	If a door is opened an alarm sounds for a fixed time. A reset is required after the alarm has sounded.
Mode 1	If a door is left open for a period exceeding the A time an alarm sounds. A reset is required after the alarm has sounded.
Mode 2	A machine has a cycle time of say 5 seconds. At the start of the cycle the timer starts and counts for 5 seconds, then the relay changes state. At this point the timer requires a reset and if the trigger is still active the cycle start again. If, however, it is not, the machine has jammed or malfunctioned.
Mode 3	If a sensor detects movement, lights are turned on for A time. Further movement does not extend lights on time. No reset is required.
Mode 4	Testing a dual path signalling system by opening the P.O. line once every 30 days for 15 seconds.



Mode 5	Generates a signal once every week to test a valve. The open signal will remain present until the valve signals that it is open. If this signal is longer than expected it could be used to trigger an alarm using another timer.
Mode 6	Useful for dividing the trigger inputs by up to 255. Say you need to count the number of people entering a building on a counter with only two digits and more than 100 enter.
Mode 7	"Man down" : once the timer is activated it must be deactivated within the time period (A). Failure will result in relay being activated for a set time period (B), then resetting (ready for the next starting trigger). This mode does not require a site visit to reset.

We have an extensive library of modes that can be incorporated should the product not fully cover your requirements, for further information please contact us.

ELECTRICAL OPERATING CONDITIONS

Operating voltage 12 to 24V DC,
maximum ripple 2V peak to peak

Reverse power connection indicated
by constant red LED

Current drain, relay not active,
approximately 10mA, relay active
approximately 55mA

INPUT LEVELS FOR TRIGGER OR RESET

LOW:

Less than 220 ohms to ground OR
an input of less than 0.8 volts

HIGH:

Greater than 4700 ohms to ground
OR an input of greater than 4 volts

Maximum input voltage 30V

Minimum input voltage -4V

Peak current available from either
pin, 5mA

OUTPUT LEVELS

Double pole contacts

AC: Maximum Switching voltage 250
volts, maximum current 5 Amps
(non inductive load)

DC: Maximum Switching voltage 30
volts, maximum current 5 Amps
(non inductive load)

Minimum switching level 5V @ 10mA

ENVIROMENTAL OPERATING CONDITIONS

Temperature range -10°C to +60°C

Maximum humidity 80% non
condensing

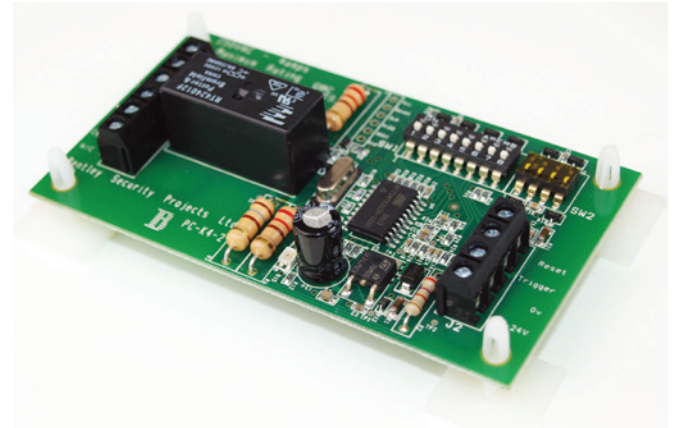
DIMENSIONS

100 X 55mm

PACKING WEIGHT

86 grams

Supplied in Protective carton with 4
self adhesive fixers & full instructions.



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