



# aap AT2-PCB Universal Timer and Rex Access Control User Manual

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*aap AT2-PCB Universal Timer and Rex  
Access Control User Manual*

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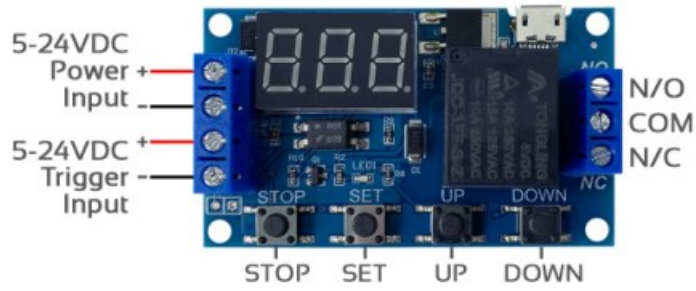
9 Related Posts

## Specifications

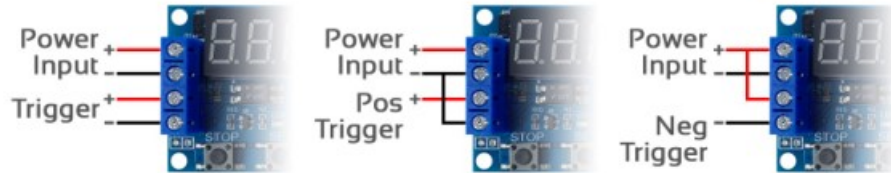
Input Voltage	5 - 24VDC
Trigger Voltage	5 - 24VDC
Relay Contacts	5 - 30VDC @ 5A
Standby Current	20mA
Operating Current	50mA
Time Increments	0.1 sec to 16.5 hours
Dimensions	63 x 37 x 20mm
Operating Temp	-20 to 60 Degrees
Time Functions	9 Selectable Modes
Mounting Holes	3mm

## Overview

## Overview



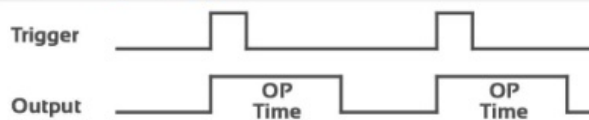
## Wiring Options



## Select A Time Function

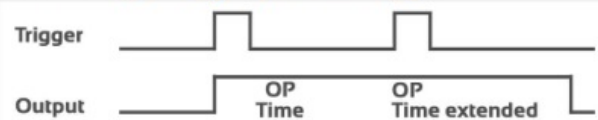
– Example PI . I, P/.2 etc

### P1.1 - Single Trigger



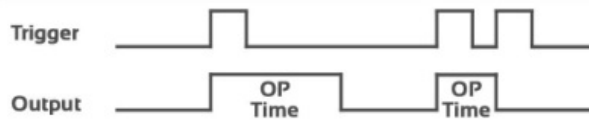
Each trigger will turn the relay on for the set OP time. Can not be retriggered while output is on.

### P1.2 - Single Trigger plus Re-Trigger



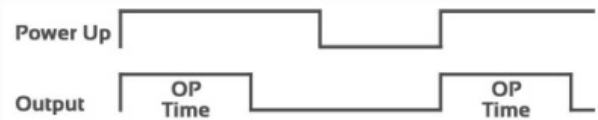
Each trigger will turn the relay on for the set OP time. Can be re-triggered during OP Time.

### P1.3 - Single Trigger plus Trigger Cut-Off



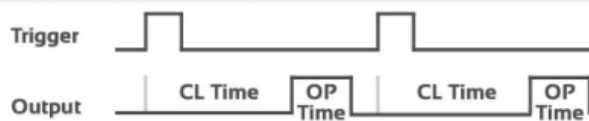
Each trigger will turn the relay on for the set OP time. Output can be stopped during OP Time with another trigger.

### P1.4 - Single Trigger Initiated by Power Up



Power up will turn the relay on for the set OP time. Trigger input is ignored in this mode.

### P2.1 - Single Trigger with Output ON Delay



Each trigger will turn the relay on for the set OP time after the CL time has expired. **Can not be retriggered.**

### P2.2 - Single Trigger with Output ON Delay



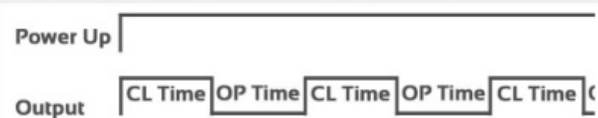
Each trigger will turn the relay on for the set OP time after the CL time has expired. **Can be retriggered during operation.**

### P3.1 - Single Trigger Cycle Mode



A trigger will turn the relay on for the set OP time, then off for the set CL time for a set amount of cycles, or a continuous cycle (LOP). A second trigger during operation will stop the cycle.

### P3.2 - Cycle Mode Initiated by Power Up



Power up will turn the relay on for the set OP time, then off for the set CL time for a set amount of cycles, or a continuous cycle (LOP). Trigger input is ignored in this mode.

### P - 4 - Extender Timer



A trigger will turn the relay on. When the trigger is released the output will continue to stay on for the set OP time.

### Warning:

<15VDC - The relay on this product is rated for continuous use with a power input up to 15VDC.

>24VDC - The relay on this product is rated for up to 5 minutes of continuous use with a 10% duty cycle with a power input up to 24VDC.

## Terminology

Enter Program Mode: Press & hold the SET button for 2 seconds, then release.

EXIT Program Mode: Press & hold the SET button for 2 seconds, then release.

OP = Relay ON Time.

CL = Relay OFF Time.

LOP = Loop (number of operation cycles per trigger).

## Programming

- First choose the time mode you wish to use from the tables on the previous page. I.e. P2.1, P3.2 etc.
- Now enter program mode by pressing and holding the SET button for 2 seconds, then releasing. The current time mode will display (i.e. P1.1) to indicate that you are in program mode.
- Next use the UP & DOWN buttons to scroll to the time mode you wish to use, then press SET to confirm.

- Now set the values for OP, CL or LOP by using the UP & DOWN buttons, followed by SET to save.

Note: Certain time modes will only include OP and some can include OP, CL & LOP as shown in the tables on the previous page.

## Time Intervals

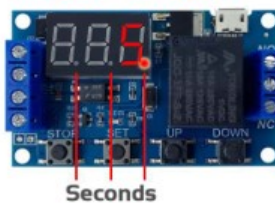
- When setting the OP &/or CL value you can choose the period to be either milliseconds, seconds or minutes. You can change between these time periods with each press of the STOP button followed by the SET button to save.

**See examples below:**

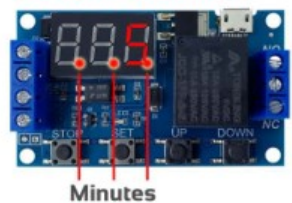
Example = 5 Milliseconds



Example = 5 Seconds



Example = 5 Minutes



- LOP (cycles) is used for time modes P3.1 & P3.2 and can be set to a number of cycles or – – for inAnite cycles.
- Once the required OP, CL, LOP & time value are set, return the module to operating mode by pressing & holding the SET button for 2 seconds then releasing. The module will flash the current time mode before returning to operating mode.

## Operation from Power Up

- After every power up the timer will return to the last programmed time mode. The timer will then wait for a trigger to begin operation. Alternatively time modes P1.4 & P3.2 will start operation automatically on power up. (see previous page for the complete table of time modes).

Optional 5V micro USB power input

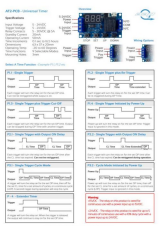


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## Documents / Resources



[aap AT2-PCB Universal Timer and Rex Access Control \[pdf\]](#) User Manual  
AT2-PCB, Universal Timer and Rex Access Control, Universal Timer

Manuals+,