

**TIMER**

**AHC15A**

**Multi-functional**

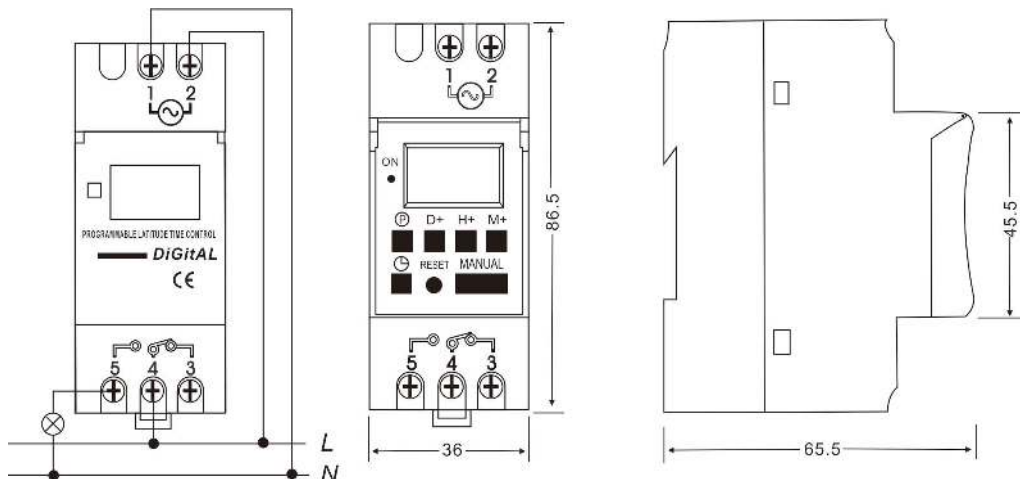
**ALION**

- Can set 20 groups on-off program, cycle weekly or daily, and control on-off manually
- Can set 20 groups pulsation program, cycle weekly or daily, and control on-off manually
- With countdown function, time range setting within 1 s ~ 99min 59sec
- Can set Daylight Saving Time (1Hours) manually
- Built-in lithium battery, and travel time as usual if power failure
- Can check accumulated operating time and action number
- Automatic time correction(-3 sec  $\leq \Delta t \leq 3$  sec) every day
- DIN35mm standard rails suitable for construction and industrial installation

Technical data

<b>Rated voltage:</b>	220VAC 50Hz	<b>Power failure memory:</b>	3year
<b>Voltage range:</b>	85~110%	<b>Contact Form:</b>	1 group conversion
<b>Number of on/off setting:</b>	20 groups on/off program	<b>consumed power:</b>	$\leq 5VA$
<b>Number of pulsation setting:</b>	20	<b>Electrical life:</b>	$10^6$ times
<b>Contact load capacity:</b>	Resistance load: 16A/ 250V AC COS $\varphi=1$ Inductive load: 10A/ 250V AC COS $\varphi=0.6$	<b>Mechanical life:</b>	$10^7$ times
<b>Countdown time:</b>	1 sec- 99min59sec	<b>Work temperature:</b>	-10 ~ +50 °C (non-icing)
<b>Contact resistance between contacts:</b>	$\leq 100m\Omega$	<b>Ambient humidity:</b>	35~85% RH
<b>Insulation resistance between contacts:</b>	$\geq 100M\Omega$	<b>Storage temperature:</b>	-10 ~ +60 °C
<b>Timing error:</b>	$\leq \pm 2$ sec/day(25°C)	<b>Weight:</b>	About150g
<b>Minimum setting time:</b>	ON/OFF program: minimum 1 min; Pulse program: minimum 1 sec		

Wiring drawing and external dimension



Setting method

\* If there is no display for the first time, press "RESET".(press both "D+" and "H+" for 3 seconds, then the product will be turned off and all setting will be lost. But day correction parameters, accumulated operating times and action times are reserved.)

**1. Setting display time(present time):**

Step	Button	programming
1	Hold  and then press <b>H+</b>	HOUR increases on the screen, press <b>H+</b> continuously, the hours increase
2	Hold  and then press <b>M+</b>	MINUTE increases on the screen, continuously press <b>M+</b> , the minutes increase
3	Hold  and then press <b>D+</b>	Mark of WEEK moves on the screen, press <b>M+</b> continuously to choose the week

\* The timer is 24 hour system when turned on, hold "" for 5 sec to convert to 12 hours system with "AM" showed on the upper left corner. Hold "" for 5 sec again to convert to 24 hours system and the "AM" on the upper left corner will be disappeared.

## 2. Timing settings (2.1, 2.2 and 2.3 three functions can not be used at the same time)

### 2.1 20 groups setting of on/off function:

Step	Button	Programming
1	Press <b>P</b>	Enter into timing ON setting (display 1 ON)
2	Press <b>H+</b> and <b>M+</b>	Set ON time, press <b>H +</b> to set the hour, press <b>M +</b> to set the minute
3	Press <b>D+</b>	Same setting every day, MO-FR, MO-SA, SA-SU, MO-WE, TH-SA, MO WE FR, TU TH SA (if it is same every day, do not press <b>D+</b> and skip this step)
4	Press <b>P</b>	Enter into timing OFF setting (displays 1 OFF)
5	Press <b>H+,M+</b>	Set OFF time, press <b>H +</b> to set the hour, press <b>M +</b> to set the minute
6	Press <b>D+</b>	Same setting every day, MO-FR, MO-SA, SA-SU, MO-WE, TH-SA, MO WE FR, TU TH SA (if it is same every day, do not press <b>D+</b> and skip this step)
7	Repeat step 1-6	Set the ON/OFF time of 2nd to 20th groups (or press <b>⌚</b> to exit)

- The ON/OFF program group can not setting overlap but should according to the time sequence. (If setting same ON/OFF time after contact 15 seconds, will have ring bell function ect.)
- When setting is finished, press **P** to view the set number of ON/OFF and the time, it be modified follow the appropriate setup steps.
- Press **P** enter to the interface ON or OFF program, press "MANUAL" to clear the ON or OFF time of current group and then display "-- : --".

### 2.2 20 pulsation function setting ("P" flashes on screen when opening)

Step	Button	Programming
1	Hold both <b>H+</b> and <b>M+</b> for 3 sec	Enter into the pulse width setting, display as 0:00 and <b>P</b>
2	Press <b>H+, M+</b> and <b>⌚</b> at the same time	Set the pulse width: min / s (max 59 min 59 sec)
3	Press both <b>⌚</b> and <b>MANUAL</b>	The pulse width setting is completed, the <b>P</b> on the screen flashes
4	Press <b>P</b>	Enter into timing pulsation ON (Display 1 ON) (Press again for the second pulse time)
5	Press <b>H+/M+</b>	Set ON time
6	Press <b>D+</b>	Same setting every day, MO-FR, MO-SA, SA-SU, MO-WE, TH-SA, MO WE FR, TU TH SA (if it is same every day, do not press <b>D+</b> and skip this step)
7	Repeat step 4-6	Set the pulsation time of 2nd to 20th groups (or press <b>⌚</b> to exit)
	Press both <b>H+</b> and <b>M+</b>	Exit the pulsation function, the display <b>P</b> will be disappeared

- When setting is finished, press **P** to view the set number of pulsation and the time, it be modified follow the appropriate setup steps.
- Press **P** enter to the interface pulsation program, press "MANUAL" to clear the pulsation time of current group and then display "-- : --".

### 2.3 Countdown function setting ("d" displayed at bottom left corner of screen)



Step	Button	Programming
1	Hold both <b>P</b> and <b>⌚</b> for 3 sec	Enter into the countdown setting, "d" displayed at bottom left corner, displayed as 0:00
2	press <b>⌚</b> and <b>H+/M+</b> at the same time	Set the min and sec of countdown respectively (duration range: 1sec~99min59sec)
3	Press <b>MANUAL</b>	Start the countdown function
4	Press <b>P</b>	Halfway reset and wait to start the countdown again
5	Hold both <b>P</b> and <b>⌚</b> for 3 sec	Exit the countdown setting, "d" at bottom left corner will be disappeared

## 3. Manual daylight saving time (DST) display time setting:

Step	Button	Programming
setting	Hold both <b>H+</b> and <b>M+</b> for 3 sec	The present time will increase 1hour ("1h" displayed at the bottom left corner of the screen)
cancel	Hold both <b>H+</b> and <b>M+</b> for 3 sec again	DST will be canceled and back to the present time

**Note:** This setting only set present time displayed. The ON/OFF time of program or pulsation has been set is not changed. If the ON/OFF program needs to run according to DST, set it in the setting program.

◆ **Automatic correction of time error daily("1d" display at bottom left corner of screen)**

Step	Button	Programming
1	Press both <b>MANUAL</b> and 	Enter into time correction, screen display: 1d-00 (setting range -3~3sec)
2	Press <b>D+</b>	Set the number of seconds to compensate each day The program is incremented or decremented by 1 second (For example, displayed as 05 refer to increase 0.5 seconds; -20 refer to reduce 2 seconds)
3	Press 	The setting is confirmed and exit

◆ **Control ON or OFF manually (press "MANUAL")**

Screen Display	Work state
<b>ON AUTO</b>	Automatic control and in the ON state
<b>AUTO OFF</b>	Automatic control and in the OFF state
<b>ON</b>	Permanent ON and not controlled by the timer
<b>OFF</b>	Permanent OFF and not controlled by the timer

◆ **Check accumulated operating time and action number**

- Hold **M** and **MANUAL**, the screen will display operating time (h) and action number (p) circularly.

**The actual operating time and action number:** multiply the displayed values by 10. (max:99990h & 99990t)

For example:"h0013" and "p0021" refer to accumulated operating time is 130 hours and action number is 210 times.

- Release **M** and **MANUAL**, it will automatic return to the clock interface.

**Attention**

- Please don't use in the place with dust, corrosive gas, direct sunlight or rain.
- Please store and use in the conditions of rated voltage with the specified temperature and humidity.
- Product design and specifications maybe be changed without notice.