

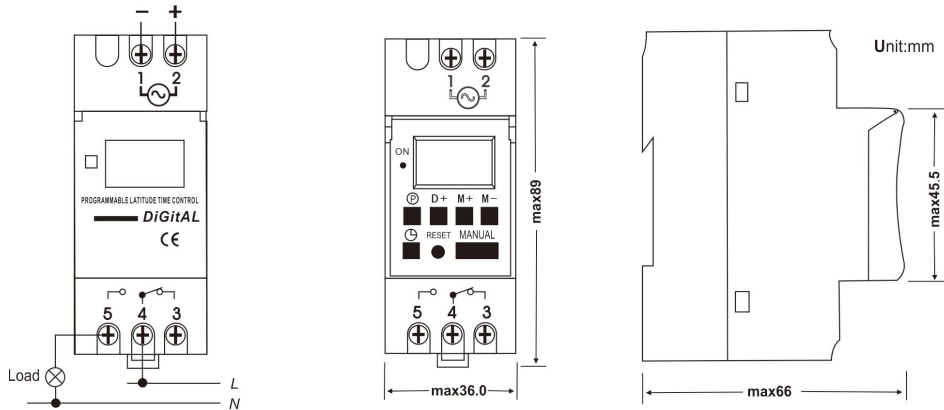
Multi-functional Digital Programmable Timer

- 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

Rated voltage:	12-48V AC/DC	Power failure memory:	3 year
Voltage range:	$\pm 10\%$	Contact Form:	1 group conversion
Number of on/off program setting:	20 groups, minimum 1 min	consumed power:	$\leq 3VA$
Number of pulsation setting:	20 times, 1 sec~59 min 59 sec	Electrical life:	10^5 times
Contact load capacity:	Resistance load: 16A/ 250V AC COS $\varphi=1$ Inductive load: 8A/ 250V AC COS $\varphi=0.6$	Mechanical life:	10^7 times
Countdown time:	1 sec- 99min59sec	Work temperature:	-10 ~ +50 °C (non-icing)
Contact resistance between contacts:	$\leq 100m\Omega$	Ambient humidity:	35~85 %RH
Insulation resistance between contacts:	$\geq 100M\Omega$	Storage temperature:	-10 ~ +60 °C
Timing error:	$\leq \pm 2$ sec/day(25°C)	Weight:	About 125g

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 \odot and then press H+	HOUR increases on the screen, press H+ continuously, the hours increase
2	Hold \odot and then press M+	MINUTE increases on the screen, continuously press M+ , the minutes increase
3	Hold \odot and then press D+	Mark of WEEK moves on the screen, press D+ continuously to choose the week

* The timer is 24 hour system when turned on, hold " \odot " for 5 sec to convert to 12 hours system with "AM" showed on the upper left corner. Hold " \odot " 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 \odot	Enter into timing ON setting (display 1 ON)
2	Press H+ and M+	Set ON time, press H + to set the hour, press M + to set the minute
3	Press D+	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 D+ and skip this step)
4	Press \odot	Enter into timing OFF setting (displays 1 OFF)
5	Press H+,M+	Set OFF time, press H + to set the hour, press M + to set the minute
6	Press D+	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 D+ and skip this step)
7	Repeat step 1-6	Set the ON/OFF time of 2nd to 20th groups(or press \odot to exit)

- a. 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,)
- b. 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.
- c. 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 H+ and M+ for 3 sec	Enter into the pulse width setting, display as 0:00 and P
2	Press H+ , M+ and ⌚ at the same time	Set the pulse width: min / s (max 59 min 59 sec)
3	Press both ⌚ and MANUAL	The pulse width setting is completed, the P on the screen flashes
4	Press P	Enter into timing pulsation ON(Display 1 ON)(Press again for the second pulse time)
5	Press H+/M+	Set ON time
6	Press D+	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 D+ and skip this step)
7	Repeat step 4-6	Set the pulsation time of 2nd to 20th groups(or press ⌚ to exit)
	Press both H+ and M+	Exit the pulsation function, the display P will be disappeared

- a. When setting is finished, press **P** to view the set number of pulsation and the time, it be modified follow the appropriate setup steps.
- b. 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 P and ⌚ for 3 sec	Enter into the countdown setting, "d" displayed at bottom left corner, displayed as 0:00
2	press ⌚ and H+/M+ at the same time	Set the min and sec of countdown respectively (duration range: 1sec~99min59sec)
3	Press MANUAL	Start the countdown function
4	Press P	Halfway reset and wait to start the countdown again
5	Hold both P and ⌚ 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 D+ and M+ for 3 sec	The present time will increase 1hour("1h" displayed at the bottom left corner of the screen)
cancel	Hold both D+ and M+ 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 MANUAL and P	Enter into time correction, screen display: 1d-00 (setting range -3~3sec)
2	Press D+	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
ON AUTO	Automatic control and in the ON state
AUTO OFF	Automatic control and in the OFF state
ON	Permanent ON and not controlled by the timer
OFF	Permanent OFF and not controlled by the timer



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.