

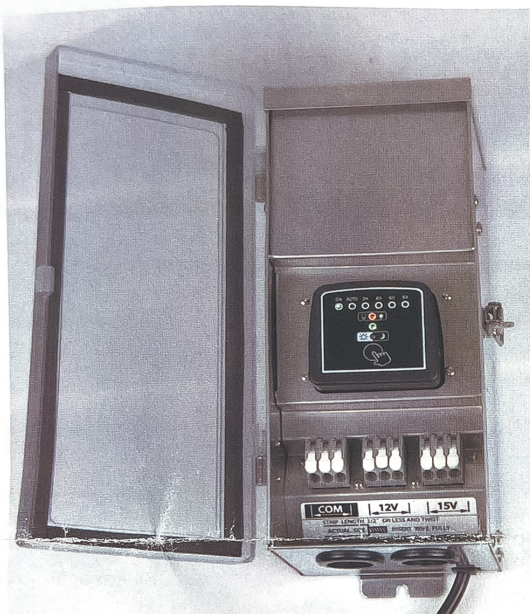


AQLIGHTING

Removable timer transformer

Model: QTR-YLS-150D / 200/300

LED Timer



Astro LCD Timer



WWW.aqlightinggroup.com

Tel (800)865-7221

Input: 120V AC 50/60Hz

Output: 12.5A(max)150VA

16.67A(max)200VA

25.0A(max)300VA

2.1 LED timer

Press the circle button  to select and set the Modes

"ON" led on: Always on mode

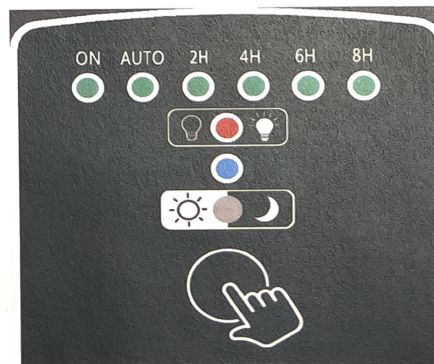
"ON" Led off: Always off mode, or short circuit or overloaded

"Auto": Photocell=from dusk to dawn working mode.

"2H " Light on at dusk and off after 2hrs...

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"8H " Light on at dusk and off after 8hrs



2.2 LCD Astro timer

1. Quick setup option (Install this transformer/timer indoor is highly advised)

1.1: Check the clock time is right as your local time, if not, refer to CLOCK TIME SETTING

1.2: Press " + =Location", choose your city code: refer to ASTRO TIMEF

SETTING (3.2)

1.3: Press "Mode" button for 3 sec, the "Location" icon will flash 3 times: default working mode set, i.e. Lights will be on at your local sunset time, and turn off at 11:00pm; Turn on at 3:00am again, switch off when sunrise (FFL Astro-timer quick set)

2. Introduction of key features of this transformer;

2.1: This transformer is built with automatic DST; No need to set the clock from time to time.

2.2: The Astronomic sunrise/set time of 85 cities in USA and 20 cities in Canada are programmed in. Provide precision dusk to dawn working periods in your location.

2.3: Thanks to the Astro timer, this transformer can be installed indoor which prolong the lifetime than outdoor.

2.4: This transformer built with temporary ON/OFF/Photo sensor Mode set, which helps checking lights/ line's working and connection.

2.5: This transformer provided more energy saving working options for some hobby users. Refer to detail setting as bellow.

3. General set up

3.1: **CLOCK TIME SETTING** (Press "Mode + Enter"=Clock):

Set your local time by press and with (Enter) button;

3.2: **ASTRO TIMER SETTING** (+ =Location)

Press down " + "button, the "Location" icon flash, press or button to choose your city code (refer to attached city code sheet) and press (Enter) for confirm the set. e.g. you are in New York South, so choose location code 56.

3.3: Default working mode is Lights will be on at your local sunset time, and turn off at 11:00pm; Turn on at 3:00am again, switch off when sunrise. Press "Mode" button for 3 sec, the "Location" icon will flash 3 times which means default mode set.

4: Operation buttons introduction

: Modes choose button

: setting confirm button

: up selecting button(hold down for quick selecting)

: down selecting button(hold down for quick selecting)

"Mode+ Enter=Clock": local clock time set buttons;

+ =Location": City code set buttons(Refer to the cities code sheet)

5: MODES SETTING in detail;

Press (Mode) button to select working mode, Always press (Enter) for confirm the mode set.

5.1: ON: Always working mode

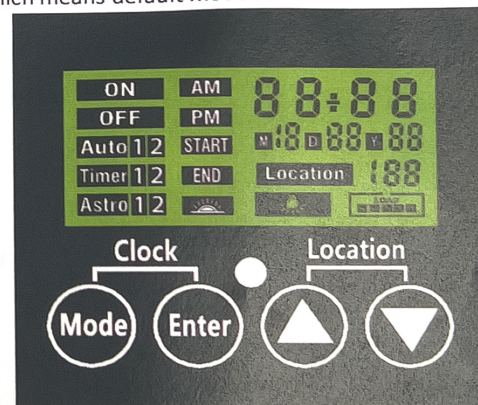
5.2: OFF: Always closing mode

5.3: Auto: Photo sensor mode (two periods working time options/Energy saving)

A): Mode Auto1; " Auto 1" icon blinking, press enter to confirm the ON by sensor automatic.

(START) The lights ON by sensor as default ON way, so only need to set the END time;

(END) The END icon blinking, press or to choose the clock "(---)" and "icons blinking, press the (Enter) for choosing the end time at Dawn with sensor.



(END) Options end times, When END icon blinking, you may press  or  "button to set the OFF time earlier than dawn





time, optional close times are PM8:00-AM00:59 (DST are PM9:00-AM01:59)



B): Mode Auto2: After "Auto1" set, it will turn to "Auto2" period set, the "Auto2" icon blinking after Auto1 first period working time set, there is a 2nd ON time option; The "Auto2 and "START" icon blinking, you can choose AM00:00-AM05:59 (DST are AM01:00-AM06:59) to open the lights again.

The END time for 2nd period/Auto2 is by sensor at Dawn.



Remark: When Auto1 end time is set at Dawn by sensor, the Auto2 will only show "OFF", means NO 2nd working period can be set.(press "Enter" to confirm the setting) And the "Auto2" icon will not show on the LCD.

5.4:Timer mode; (set ON and OFF at any time for testing and temporary using)

A):Timer1, press "mode", then press  or  button to choose Timer1, The "Time1 " and "Start" icon blinking, ready to set the ON time by press  or  and Enter button to confirm.

"End" icon blinking, ready to set the OFF time by press  or  and Enter button to confirm.

You can set any time for working and OFF between 00:00-23:59; After Timer1 set, it will turn to Timer2 period working time set.






B):Timer2, The "Timer 2" and "Start" icon blinking, ready to set the ON time by press  or  and Enter button to confirm.

"End" icon blinking, ready to set the OFF time by press  or  and Enter button to confirm.


You can set any time for working and OFF between 00:00-23:59

Remark: When there is same working time period in Timer 1 and Timer2 setting, it will be ignored by the system.

5.5: Astro1 /2 (Astronomic timer two working periods, good to use when installed indoor and no light environment)

A) Astro1, press "mode", then press  or  button to choose "Astro1", the "Astro 1 "/"Start" /  and "+00 " icons blinking, press  or  to choose $\pm 10, \pm 20, \pm 30, \pm 40, \pm 50$ minutes before or later than the local sunset time to

TURN ON the lights, Press" Enter" button to confirm the set.

"End"  and "+00 " icons blinking, Turn OFF at your local sunrise time, press "Enter" to confirm the set.

Options for "End" time: when "End" icon blinking, you can choose PM8:00-AM00:59 (DST PM9:00-AM1:59) to OFF.

B) Astro2, when"Astro2 and "Start" icons blinking, you can choose the 2nd period ON time AM00:00-AM05:59 (DST AM01:00-AM06:59)

Remark: when in Astro1 time period, the "End" time is set at sunrise time, the Asrto2 will show " OFF", means can not set in Astro2 mode, (press "Enter" to confirm the setting)

When "End"  and "+00 " icons blinking, press  or  to choose $\pm 10, \pm 20, \pm 30, \pm 40, \pm 50$ minutes before or

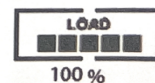
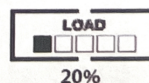
later than the local sunrise time to TURN OFF the lights, Press" Enter" button to confirm the set.


Remark:

When the Astro2 can not be set, the "Astro2" icon not shows on the LCD.

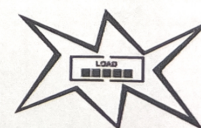
6; Transformer loading consumption indicating

This transformer is built with lights loading power capacity status;



6.1: When LED  is ON, means it working.

6.2: Icon at right side indicating the loading status, when one bar shows telling you 20% of the transforme watt used, when 5 bars full showing, means transformer 100% full watt loaded. When the transformer is ove loaded, the loading bar icon will blinking, and when the loading over 120% or short circuited, the output will shut off, and the loading bar icons keeping blinking ... Checking your loading and reduce the lights or checking the short circuit then press any button to turn on the transformer and reset your working mode



Cities code sheet for USA

Code	Area/City	Code	Area/City	Code	Area/City	Code	Area/City
01	Alabama North	23	Illinois south	45	MISSOURI south	67	Pennsylvania West
02	Alabama South	24	Indiana Eastern time	46	Montana East	68	Rhode Island
03	Alaska	25	Indiana Southern (Central time zone)	47	Montana west	69	South Carolina
04	Arizona (no DST)	26	Iowa East	48	Nebraska East	70	South Dakota East
05	Arkansas North	27	Iowa West	49	Nebraska West	71	South Dakota West
06	Arkansas South	28	Kansas East	50	Nevada North	72	Tennessee West
07	California Central	29	Kansas West	51	Nevada South	73	Tennessee East
08	California North	30	Kentucky East	52	New Hampshire	74	Texas East
09	California South	31	Kentucky West	53	New Jersey	75	Texas North
10	Colorado North	32	Louisanna North	54	New Mexico North	76	Texas South
11	Colorado South	33	Louisanna South	55	New Mexico South	77	Texas West
12	Connecticut	34	Maine	56	New York South	78	Utah
13	Delaware	35	Maryland East	57	New York Upstate	79	Vermont
14	Florida north	36	Maryland West	58	North Carolina East	80	Virginia East
15	Florida south	37	Massachusetts	59	North Carolina West	81	Virginia West
16	Florida west	38	Michigan North	60	North Dakota East	82	Washington
17	Georgia north	39	Michigan South	61	North Dakota West	83	West Virginia
18	Georgia south	40	Minnesota north	62	Ohio	84	Wisconsin
19	Hawaii	41	Minnesota south	63	Oklahoma	85	Wyoming
20	Idaho north	42	Mississippi North	64	Oregon East		
21	Idaho south	43	Mississippi South	65	Oregon West		
22	Illinois north	44	MISSOURI north	66	Pennsylvania East		

Cities code sheet for CANADA

101	Whitehorse, Yukon	102	Montréal, Quebec	103	Quebec	104	Charlottetown, Prince Edward Island
105	Ottawa, Ontario	106	Toronto	107	Barrie, Ontario	108	Iqaluit, Nunavut
109	North Sydney, Nova Scotia	110	Halifax, Nova Scotia	111	Calgary	112	Vancouver
113	Vancouver	114	Surrey	115	Winnipeg	116	Brandon
117	Moncton	118	Saint John	119	St. John's	120	Yellowknife

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