

WTS1

WEEKLY TIME SWITCH



DIN Rail installation.
Advanced per-setting one week before.
Repeat program with 16 ON/OFF settings.
To the minute setting accuracy.
LCD display realtime to Hour/Minute and ON/AUTO/OFF.

1. Overview

- The WTS1 is a programmable digital timer switch with relay output. It can be used to turn on or off lights, appliances or other small loads on specified days of the week and times.
- The switching on and off times are repeated daily and (or) weekly.
- The timer support up to 16 different programs daily / weekly schedules.
- Manual mode is available to overrule the programmed relay events.
- A super capacitor inside the timer switch keep the RTC running at least 150 hours (700 hours expected) and it will be charged when the timer is connected to an AC power.
- The DIN rail mount of this timer switch makes it suitable for power management in a control panel.

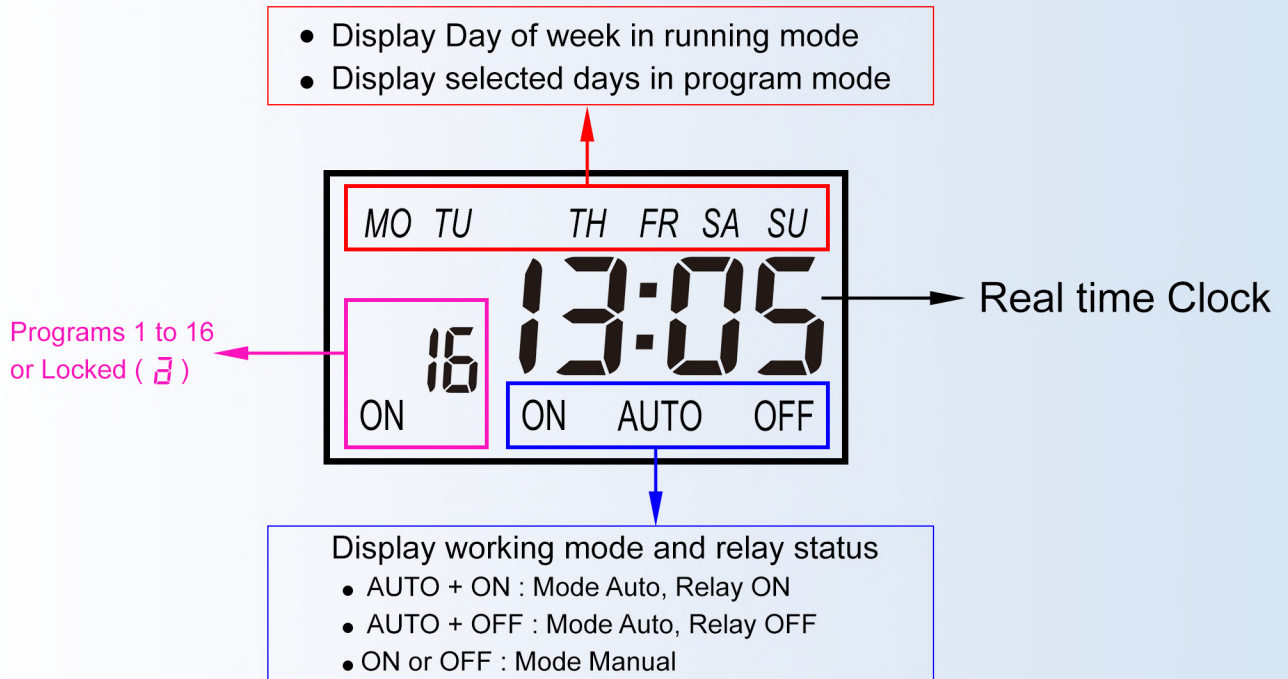
3. Specifications

Parameters	
Number of circuits	Change over switch (SPDT)
Voltage rating	110-220VAC 50/60Hz
Power consumption	4.5W
Operation	16 ON + 16 OFF
Pulse width	1min - 23h 59min
Daily program	16 combination
Clock error	≤ 2 sec/day (25°C)
Switching contact	1 changeover switch
Contact rating	16A @250VAC (Resistive) 8A @250VAC (pf=0.8IND)
Battery reserve	Warranty 150 hours , expected > 700 hours (Rechargeable)
Load capacity	30(16)A 240VAC (Ohmic load cosφ=1)
Display	LCD realtime Hour/Minute and ON / AUTO / OFF * Days of week + Real Time Clock * Auto / On / Off * Relay status (ON or OFF)
Service life	Mechanically: 10 Electrically: 10
Operating temperature	10°C ~ 55°C
Humidity	35~85% RH
Installation	DIN rail 35mm
Dimension	87 x 36 x 69 (mm)

3. Connection terminals

- L, N : Auxiliary power supply
110-220VAC
ON Led will light when power is available
- 3, 4, 5 : Changeovers switch SPDT.
Terminal 3 is Common
3-4: NO contact
3-5: NC Contactble



4. LCD Display Indicators



5. Function keys meaning

Keys	Meanings, Operation
Clock Lock	Press 4 times to unlock the switch. If it shows locked (16) Press 1 time to exit program mode
P	Press to select program 1 to 16
D+	Set current Day of week in running mode Select combination days of week in program mode
H+	Set Hour for RTC in running mode Set ON / OFF Hour for program
M+	Set Minute for RTC in running mode Set ON / OFF minute for program
RESET	Reset time / Turn on the LCD
MANUAL	Switch mode: AUTO / ON / OFF Disable a program (display --:--)
D+ H+	Press and hold two button 3 seconds to turn off the LCD

6. Unlock instructions

Press the “  ” button for the four times, and the “  ” character disappears in the lower left corner of the display screen.

At this time, the control switch is to unlock the state.

All keys are valid, can be set or other operation.

If not operated in 30 seconds, the time controlled switch is automatically locked.

If your product doesn't come with a lock, skip the step.


Operating method

First time use this timer switch, please input power and left battery recharge.

After then press “ RESET ”


Clock setting: Press “ D+ ” key, “ M+ ” key respectively to adjust clock of Timer to accurate ADTE, HOUR, MINUTE

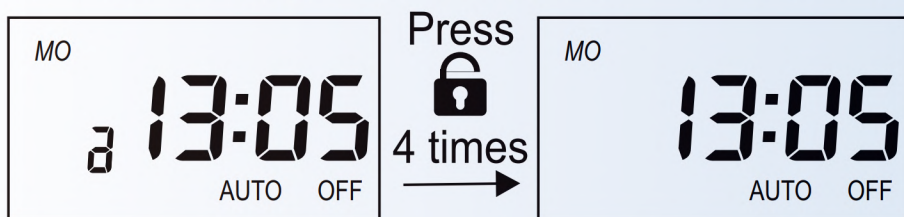
Programming

Step	Key	Programming
1	Press P	Set “ Lon ” time (display I on)
2	Press D+	Select days of week <i>(If you want same set in every day you need not press this key)</i>
3	Press H+/M+	Set hours/minutes
4	Press P	Set “ Loff ” time (display I off)
5	Press D	Select days of week <i>(If you want same set in every day you need not press this key)</i>
6	Press H+/M	Set hours/minutes
7	Repeat step 2-16	Set 2-16 On/Off time
8	Press 	End

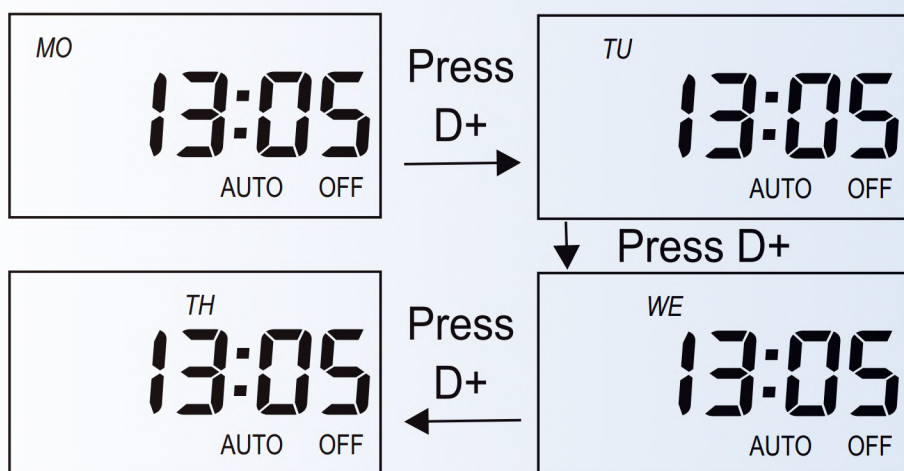
6. Operating instructions

Make sure the switch has enough reserve power or is supplied with AC power before using

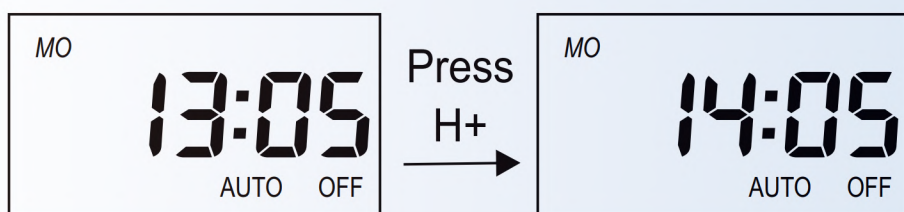
- 1 If the switch LCD is off, press **RESET** button to turn it **ON**
- 2 If the switch is locked (), press **UNLOCK** button 4 times to unlock it



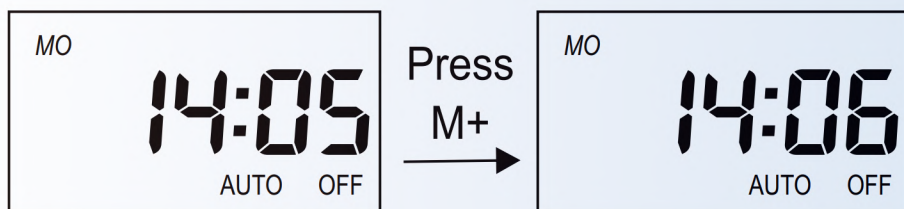
- 3 Press **D+** to adjust the Day of week (*Example from Monday to Thursday*)



- 4 Press **H+** to adjust the Hour of the RTC (*Example 13:05 to 14:05 From 13 to 14*)



- 5 Press **M+** to adjust the Minute of the RTC (*Example 14:05 to 14:06 (From 05 to 06)*)

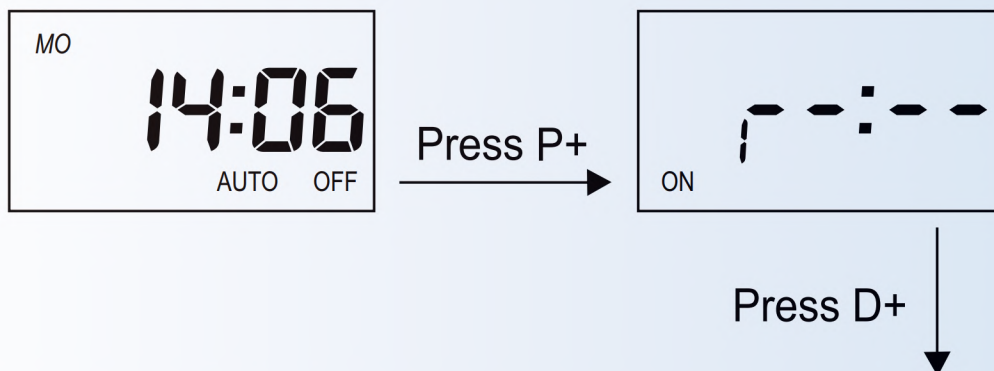


- 6 Step to turn equipment ON and OFF, Scheduling devices to turn on and off in real time has many scenarios, from simple to complex. A simple scenario like turning on the pump from 6:15 to 7:30 every day we only need one program. More complex scenarios like turning on the lights from 08:00 to 17:00 from Monday to Friday, on Saturday from 08:00 to 11:30, not on Sunday, then we need to combine 2 programs.

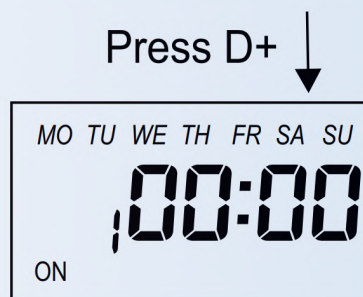
The WTS1 provides 15 combinations of daily programs as below:

1.	MO	TU	WE	TH	FR	SA	SU
2.	MO	TU	WE	TH	FR	SA	
3.	MO	TU	WE	TH	FR		
4.						SA	SU
5.	MO	TU	WE				
6.				TH	FR	SA	SU
7.	MO		WE		FR		
8.		TU		TH		SA	
9.	MO						
10.		TU					
11.			WE				
12.				TH			
13.					FR		
14.						SA	
15.							SU

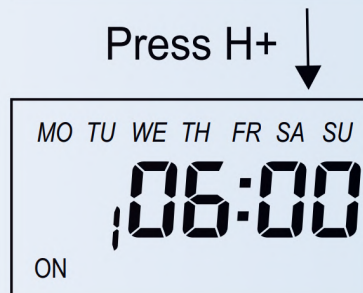
- Press P+ to choose program. It will allow to set program 1 parameter



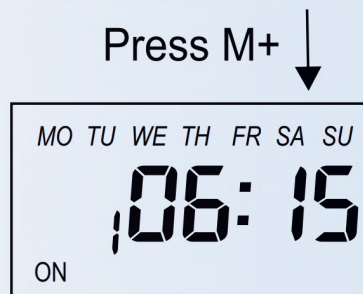
- Press D+ to adjust Days of weeks
Example EVERYDAY



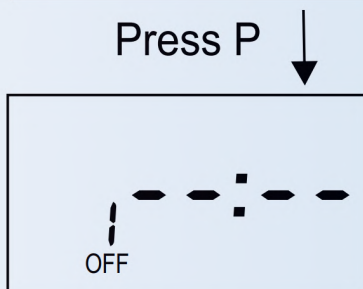
- Press H+ to set ON HOUR
Example 06:00 (06)



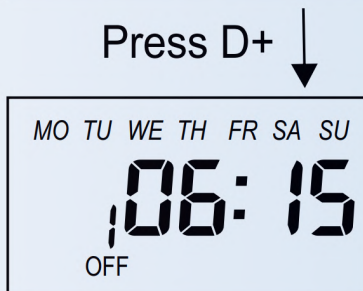
- Press M+ to set ON MINUTE
Example 06:15 (15)



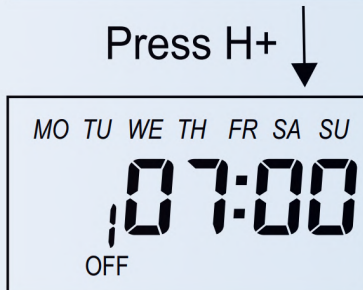
- Press P to set OFF time
for Program 1



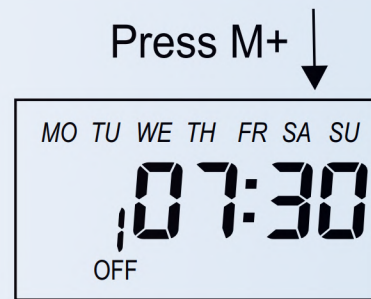
- Press D+ to set Days of week
Example EVERYDAY



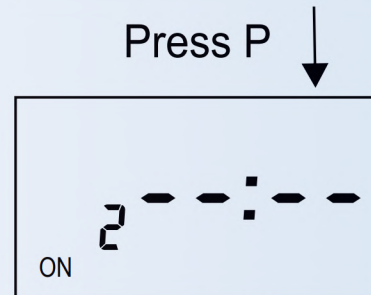
- Press H+ to set OFF HOUR
Example 07:30 (707)



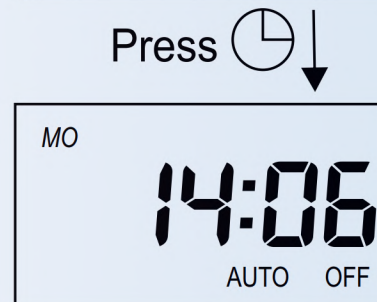
- Press M+ to set OFF MINUTE
Example 07:30 (30)



- Press P to set ON time for Program 2



- Press CLOCK to Exit program



- More complex scenarios like turning on the lights from 08:00 to 17:00 from Monday to Friday, on Saturday from 08:00 to 11:30, not on Sunday, then we need to combine 2 programs
- We need to use program 3 and 14

Notes:

- If you want to clear the program that has been set, press “MANUAL” and the LCD will show “--:--”.
- If you want to restore the erased program, press “MANUAL” again.
- It provides 15S-combination of Daily-Program which can lead great convenience to users upon choosing the required days in a week for operation the timer.
- If you need not 16 times setting press “⌚” key to the end 4. Press “MANUAL” key can select timer switch to ON / OFF / AUTO

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