

Digital Programmable Time Switch Installation Instructions



TS16 TS20 TS30

Safety

⚠ CAUTIONS

- 1. This TS shall be installed by skilled electricians.
- 2.Before installation or maintenance, ensure that the power supply is turned off and adequately isolated.
- 3.Make sure the TS has been correctly wired and firmly tightened.
- 4.Do not disassemble or repairTS which may cause an electric shock, fire or other accidents.

Description

Digital time switch for controlling of electrical installations with daily or weekly programs

Features

- · Din rail mounting
- Daily or weekly programs
- · Real time LCD display
- · Built-in lithium battery to guarantee the normal working when power failure
- 16 ON/OFF program settings, and can be ON/OFF at any time.
- 16 modes of day's selection
- Set 18 pulses of (ringing the bell) program with adjustable pulse duration
- Set the countdown program with countdown duration 1 s ~ 59m59s.
- Automatic correction time of per week (- 30 seconds≤∆t≤ 30 seconds).

Operation mode setting

Press MANUAL key to select ON, AUTO or OFF

- ON AUTO: with automatic state ON
- ON: Set the output permanent ON irrespective of preset programs.
- OFF: Set the output permanent OFF irrespective of preset programs.
- · AUTO OFF: with automatic state OFF

*These instructions should be read in full and retained after installation for future reference.

Key function



- P: Programming
- D+: Day setting
- H+: Hour setting
- M+: Minute setting
- ① : Clock setting & exit programming

Reset: Initiating and resetting MANUAL: Operation mode setting

Basic setting

- 1. Press P key to check or change the setting time.
- 2. Press RESET to initiate in case there is no display after 5 seconds of power on.
- 3. Press RESET to restart if time is paused and function is abnormal.
- 4. Press M+ and D+ for 3 seconds to power off the display and clear all
- 5. Press MANUAL to ON and OFF at any time.

Clock setting

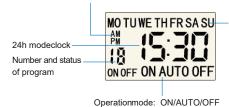
- 1.Press

 and D+ together to set correct day.
- 2.Press () and H+ together to set correct hour.
- 3.Press

 and M+ together to set correct minute.

LCD display

When powered on,it is in 24h mode clock.Press (1) for 3 seconds,it is changed to 12h mode clock(AM means morning,PM means afternoon).Press or 3 seconds again, it comes back to 24h mode clock



Dayselection: 15 modes

- 1 MOTUWE THER SASU 2.MO /TU/WE/TH/FR/SA/SU (working time is different of 3. MO TU WE TH FR
- 4. MOTU WE TH FR SA
- 5. SA SU
- 6. MO WE FR
- 7. TH TH SA
- 8. MO TU WE
- 9. TH FR SA
- 10. MO
- 11. TU
- 12. WE
- 13. TH
- 14. FR
- 15. SA
- 16. SU

Programming instruction: For ON/OFF setting

Step	Key	Programming		
1	Press P	Set 1 ON time (Display 1 ON)		
2	Press D+	Select days of week		
3	Press H+/M+	Set hour and minute of ON		
4	Press MANUAL	Cancel setting (Display:) , press again to restore setting		
5	Press P	Set 1 OFF time (Display 1 OFF)		
6	Press D+	Select days of week		
7	Press H+/M+	Set hour and minute of OFF		
8	Press MANUAL	Cancel setting (Display:) , press again to restore setting		
9	Repeat 1-8	Set 2-16 ON/OFF programs		
10	Press 🕒	Exit to time setting		
11	Press "H+" & "D+" together	OFF display screen and cancel program		

^{*}If ON and OFF time setteings are the same, the open time of product's relay is 30 seconds.

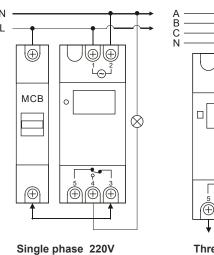
Programming instruction: For Countdown

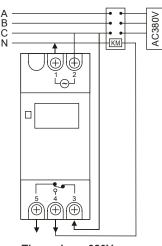
Step	Key	Programming		
1	Press P&	Press for 3 seconds to countdown setting (Display d=0:00)		
2	Press 4 &H+/M+	Setting of Minutes/Seconds (Max 59min 59sec)		
3	Press MANUAL	Start Countdown		
4	Press P	Exit the Countdown state		
5	Press P&	Press for 3 seconds to exit		

AUTO time correction(weekly)

Step	Key	Programming
1	Press P&MANUAL	Access to time correction programme (Display'7d-00')
2	Press D+ &MANUAL	Adjust the error time Setting of -30 sec/+ 30 sec
3	Press (1)	Confirm and exit

Wiring Diagram





Three phase 380V

Programming instruction: For Pulse setting

Step	Key	Programming	
1	Press H+&M+	Press for 3 seconds to Pulse setting (Display P=0:00)	
2	Press	Select Pulse time range from 1 second to 59 min 59 sec. "P" flashes after 1 min	
3	Press P	Set 1 ON time(Display 1ON)	
4	Press D+	Select days of week	
5	Press H+/M+	Set hour and minute of ON	
6	Repeat 3-5	Set 2-18 pulse programs	
7	Press H+&M+	Press for 3 seconds to exit Pulse setting	

Technical Data

Туре	TS16	TS20	TS30	
Rated voltage (selectable)	AC220-240V AC110-120V AC380V AC/DC12V AC/DC24V AC/DC48V AC85-260V			
Contact rating	16A(8A): 1NO+ 1NC	20A(10A): 1NO+ 1NC	30A(15A): 1NO	
Frequency	50/60Hz			
Programming range	1Minute-168Hours(1 week)			
Minimum setting interval	1Minute			
Time precision	≤ 1 second/day (25 °C)			
Display	LCD			
Operation mode	ON / AUTO / OFF			
Power consumption	< 4 VA			
No. of ON/OFF setting	16			
Power reserve	3 years			
Working temperature	- 10 ~ 40 °C			
Ambient humidity	35 ~ 85% RH			
Electrical life	10⁵ times			
Mechanical life	10 ⁷ times			
Mounting	DIN RAIL (35x7.5mm)			
Weight	123g	124.5g	133g	
Dimension	89 x 36 x 65mm			

Dimension (mm)

