Single channel digital weekly time switch

□ Description

ESRD-TPW1 digital time switch is used for realization of time functions in the control systems and automation. It operates according to the set time schedule planned by the user.

There is an internal battery which can protect real time clock and all the settings when the electric power supply is off.

☐ Features

- Digital time switch with weekly program
- 3 year power reserve(lithium battery).
- 50 programs
- Sealable cover of the front panel, easy setting by 4 keys.
- Automatic summer/winter time switchover
- LCD display
- Holiday mode.
- single channel
- Manual control by keys combination.
- Automatic transfer of weekdays
- 220-240VAC input supply.
- Double-module, mounted on TH-35 rail.

☐ Technical data

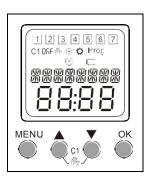
Supply terminals	A1-A2
Rated voltage	AC220-240V
Rated frequency	50/60Hz
Power consumption	1W
Supply volltage tolerance	±10%
Number of channels	Single channel
Number of programs	40
Program	weekly program, daily program
Operating modes	manual, automatic, holiday
Summer/winter time	off, automatic changes
Time tolerance	≤1s/day at 25°C
Power reserve	3 year
Data readout	LCD display
Number of contacts	1 C/O
Current of contacts	16A/250V AC1
Switching capacity	4000VA/AC1, 384W/DC
Mechanical life	10 ⁶
Electrical life	10 ⁵
Rated insulation voltage	250V
Protection degree	IP20
Pollution degree	3
Altitude	≤2000m
Ambient temperature	-20°C~55°C
Permissable relative humidity	≤50%(40°C,without condensation)
Storage temperature	-30°C~70°C
Wire size	³mm ∼4mm
Tightening torque	0.5Nm
Mounting	TH-35 Rail(EN60715)
Dimensions	90*36*64mm
Standard	IEC60947-1/IEC60947-2-7

Maximum pilotable power

		#F		₩
2300W	2300W	1000W	500W	500W

Operating instruction

O Panel



Symbol legend

1 2 3 4 5 6 7 — Days of the week Monday, Tuesday, ...Sunday

C1 — Channel 1

□n 0FF — Relay status

⊖ — Automatic mode

— Manual mode

— Holiday mode

₩ — Winter time

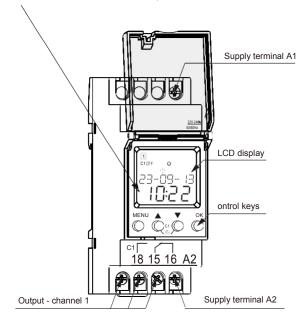
Summer time

Prog -Program setting

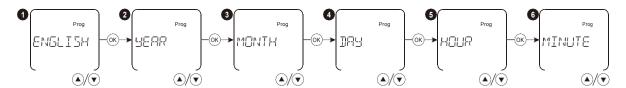
Keys

MENU	Enter main menu Back to main menu	ОК	O Confirm selection
	○ Select menu○ Digit +	Š	○ Select menu ○ Digit -
C1 manual operation			

23-09-13: DD-MM-YY, 23th.September.2013



☐ Initial operation

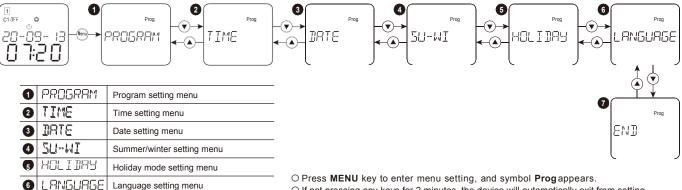


- Select the desired language with "▲▼" keys and press "OK" key.
- 2 Select adequate year with " ▲▼" keys and press "OK" key.
- 3 Select adequate month with " ▲▼" keys and press "OK" key.
- Select adequate day with " ▲▼" keys and press "OK" key.
- 5 Select adequate hour with "▲▼" keys and press "OK" key.
- 6 Select adequate minute with "▲▼ " keys and press " OK" key.

End settings and exit from menu

Note: If the settings were not ended and without operation by keys for 2 minutes, device will return to ENSLISH menu.

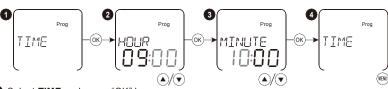
☐ Main menu



- O If not pressing any keys for 2 minutes, the device will automatically exit from setting.
- O Select the desired menu by pressing " $\blacktriangle \blacktriangledown$ " keys.

Set time

O END



- 1 Select TIME and press "OK" key.
- Select adequate hour with "▲▼" keys and press "OK" key. adjusting range is 0~23.
- 3 Select adequate minute with "▲▼" keys and press "OK" key. adjusting range is 0~59.
- 4 Return to last menu by pressing "MENU" key.

 $\label{long-press} \begin{tabular}{ll} Long press $$ 0.5s$, increase the numerical value rapidly \\ Long press $$ $$ 0.5s$, decrease the numerical value rapidly \\ \end{tabular}$

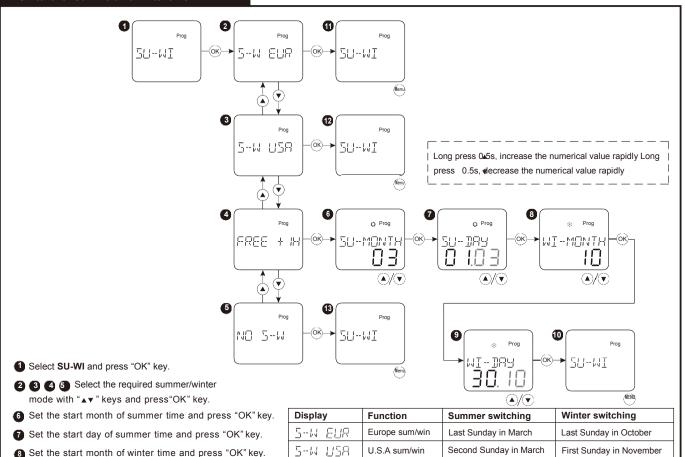
Set date



- Select DATE and press "OK" key.
- Select adequate year with" " keys and press"OK" key. adjusting range is 2000~2095. Select
- adequate month with" "keys and press"OK" keys
- Select adequate day with " keys and press "OK" key.
- Return to last menu by pressing"MENU" key.

Long press 0.5s, increase the numerical value rapidly Long press 0.5s, decrease the numerical value rapidly

Switchover Summertime/winter time



FREE + IH

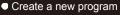
NO 5-W

Free sum/win

No sum/win

Freely programmed

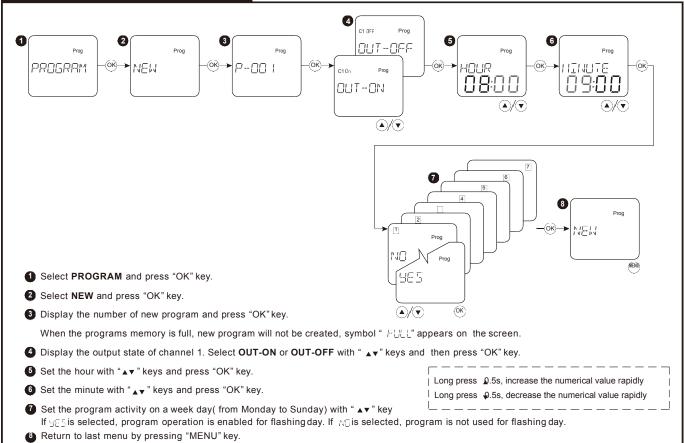
Freely programmed



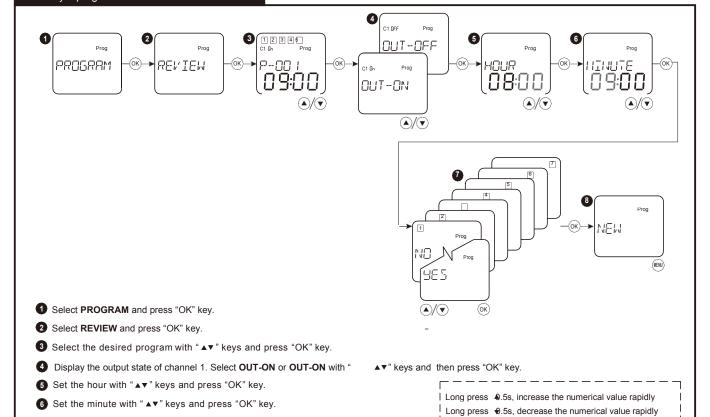
8 Set the start month of winter time and press "OK" key.

10 11 12 13 Return to last menu by pressing "MENU" key.

9 Set the start day of winter time and press "OK" key.

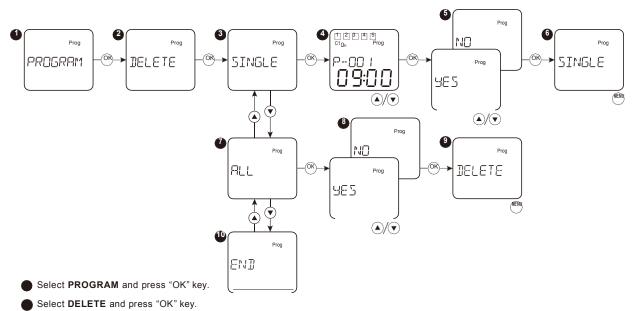






▲▼" keys.

Delete a program



If $\exists ES$ is selected, program operation is enabled for flashing day. If $\exists ES$ is selected, program is not used for flashing day.

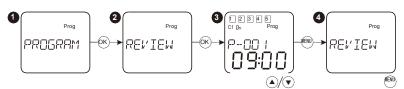
- Select SINGLE to delete single program and press "OK" key.
- Select the desired program with "▲▼" keys and press "OK" key.

Set the program activity on a week day(from Monday to Sunday) with "

8 Return to last menu by pressing "MENU" key.

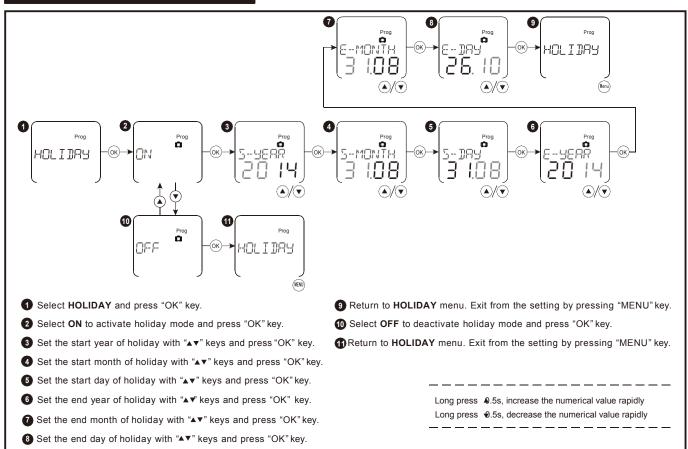
- Select ∃E5 or №0 with " ▲▼ " keys and press "OK" key.
- Return to SINGLE sub-menu, Exit from the setting by pressing "Menu".
- Select ALL to delete all programs and press "OK" key.
- Select " $\exists \text{ES}$ " or " NO "with " $_{\blacktriangle\blacktriangledown}$ " keys and press "OK" key.
- Return to **DELETE** sub-menu, Exit from the setting by pressing "MENU".
- End program setting.

Check a program

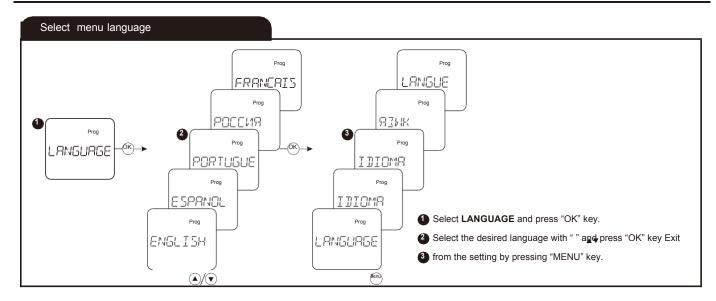


- Select PROGRAM and press "OK" key.
- Select REVIEW and press "OK" key.
- View the operation of the set programs with "Exit ▼ "keys and press "OK" key.
- from the setting by pressing "MENU" key.

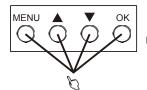
Holiday program



□ Language setting



□ Reset



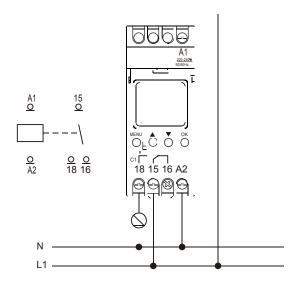
Press the four keys simultaneously for 3 seconds to reset automatically. The device was restored to factory settings.

☐ Keys combination for MANUAL control

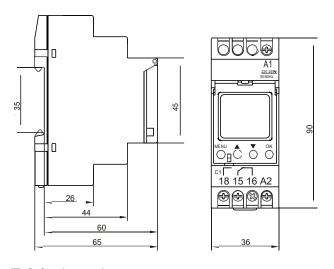


Press "Av" keys simultaneously, the output state of channel 1 switches to MANUAL. When the output states of other operation modes was changed, Manual mode exits automatically.

□ Wiring diagram



□ Dimensions



□ Safety instruction



WARNING

- -Please disconnect the power supply before installation.
 -Connect the supply voltage as stated on the product.
- The device should be installed, operated and maintained by qualified personnel.
- 2. Don't dismantle or repair the device whether it operates normally, otherwise no responsibility is assumed by manufacturer or seller.
- 3. Please refer to wiring diagram when connecting.
- 4. Never use the product at the site which can be invaded by corrode gas, strong sunshine light or rain.