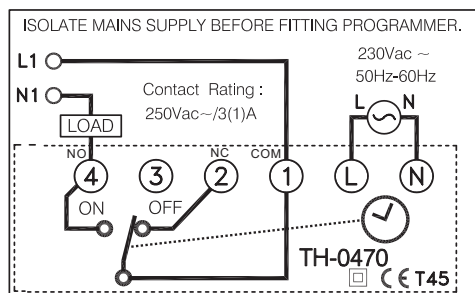




TH-0470 One-Channel Programmable Time Switch ----- Programming Guide (With Temperature Control)

Power Supply: 220/240 VAC, 50 HZ
 Ambient Temperature : 0~35°C
 Contact Rating: 3A(1A) Volt-free
 Program Memory backup: 3Vdc Lithium CR 2032
 (Memory sustains 30 days after power out)

Wiring guide



Installation – Usage of slide-switches/jumpers on back of thermostat housing

Day-programming mode selection

This Time Switch provides one-channel ON/OFF control respectively three times in one day to your own preference. There are three daily-programming-formats for user option

- 24 Hour** – All 7-day in same programming-block. **PROG OPTION 7D**
- 5/2D** – 5-weekday in same programming-block, weekend in same block. **5/2** **24H**
- 7D** – each day of week can be programmed independently.

5°C Frost Protection

5°C position jumpered, shall activate frost protection function. When ambient temperature reaches below 5°C Time Switch shall automatically command heating-system to start working. Frost protection effective only when Time-Switch output in "OFF" status By pressing **TIME+** & **TIME-** together for 3 seconds to enter selecting mode to choose from 1 to 5 °C for Frost Protection. Pressing **TIME+** or **TIME-** to adjust.

Temperature Control Adjustment

"TEMP" position must be jumpered before starting to adjust temperature setting. (Factory default 21°C)

- Point slide-switch to "RUN"
- Press **TIME+** & **TIME-** together and hold for 3 seconds, Time-Switch shall enter temperature adjustment mode
- Press **TIME+** or **TIME-** to set desired temperature. Wait 10 second, Time-Switch shall resume its functioning upon flashing on LCD stopped.

How To start Programming Time Switch

*****CRUCIAL**-----This Time-Switch's programming*** logic is designed with "time setting as the primary command", any sequential programming command will not be effective, before time-setting completed.

***Press any key to enter program-setting-mode, and be certain that it is a must to complete Time-Setting first.

Set Day and TIME-

- Point slide-switch to **TIME SET**
- Press **DAY** to select accurate day of week
- Press **TIME+** / **TIME-** to adjust time of day.(pressing and hold button shall enable clock fast running)
- Point slide-switch to "RUN" to run programs, or "PROG SET" if you want to change program setting.

To select ON/OFF-period(event) per day –

5 modes for user option

- "OFF"-- Time-Switch output constant off
- "1"-- Time-Switch offers 1- ON/OFF-period per day
- "2"-- Time-Switch offers 2- ON/OFF-Period per day
- "3"-- Time-Switch offers 3- ON/OFF-period per day
- "ON"-- Time-Switch output constant on

- Point slide-switch to "RUN".
- Press **SELECT** to choose mode.
 - *When choosing "1", Time-Switch shall take first "ON" and third "OFF" as its ON/OFF-period command.
 - *When "2" chosen, Time-Switch shall execute first ON/OFF and third ON/OFF, **second ON/OFF** command shall be **ignored**.
 - *When choosing "3", every ON/OFF-period command shall be carried out.

How to review Programs

- Point slide-switch to "RUN"
- Press **PROG** to review

How to set Programs

- Point slide-switch to **PROG SET**
- Press **PROG** to view each ON/OFF (total 3 ON/OFF shall show on LCD)
- Press **TIME+** or **TIME-** to set desired time for each ON/OFF.
 - **Repeat sequence– **PROG** ⇌ **TIME+** **TIME-** ⇌ **PROG**
- Point Slide-Switch back to "RUN", Time-Switch shall begin to execute programs.

How to use Override

Two Override functions built-in this Time-Switch's original programming design. These Override function shall be effectively working only under condition of that "ON/OFF-period-mode," 1" or "2" or "3" is chosen. (Refer these to paragraph above for detailed description). Also, when room temperature is above this Time-Switch's temperature setting, or "Temperature Control Adjustment" is being jumpered, these Override function shall not be effective.

- ON/OFF Override**– By pressing **ADVANCE**, shall reverse status of program(ON/OFF-period) in executing, turn "ON to OFF" or "OFF to ON" till to the time next program(ON/OFF-period) carry-out original programmed command.
- 1~3 HR extensional Override**– Pressing **+1--+3hr** to enter this mode, press **+1--+3hr** again to select desired Hours for this override.

When **ON/OFF**-period works in "**ON-status**", Time-Switch output shall extend its output maintaining "ON-Status" for 1 to 3 Hours. Time-Switch shall resume its original programmed works when this override ends.

When **ON/OFF**-period works in "**OFF-status**" Time-Switch output shall change to be "ON", clock-countdown shall display on LCD, to indicate time remaining for this Override

How to choose Back-light mode

- Point Slide-Switch to "RUN"
- Pressing **DAY** for 5 seconds.
- Press **DAY** again to choose "AUTO" (backlight on for 30 seconds after pressing any rubber keys.) or "ON" (backlight constant on).
- Wait 5 seconds, program shall resume its works.