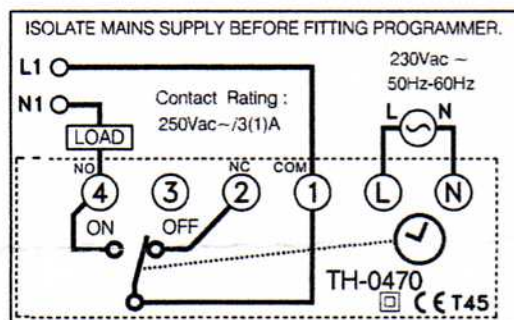


# TH-0470 One-Channel Programmable Time Switch ----- Programming Guide (With Temperature Control)

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

1. **24 Hour** – All 7-day in same programming-block. **PROG OPTION**

2. **5/2D** – 5-weekday in same programming-block, **7D**  
weekend in same block

3. **7D** – each day of week can be programmed independently. **5/2**  **24H**

### 5°C Frost Protection 5°C

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

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

1. Point slide-switch to "RUN"
2. Press **TIME+** & **TIME-** together and hold for 3 seconds, Time-Switch shall enter temperature adjustment mode
3. 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-

1. Point slide-switch to **TIME SET**
2. Press **DAY** to select accurate day of week
3. Press **TIME+** / **TIME-** to adjust time of day.(pressing and hold button shall enable clock fast running)
4. 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

- A. "OFF"-- Time-Switch output constant off
- B. "1"-- Time-Switch offers 1- ON/OFF-period per day
- C. "2" --Time-Switch offers 2- ON/OFF-Period per day
- D. "3"-- Time-Switch offers 3- ON/OFF-period per day
- E. "ON"-- Time-Switch output constant on

1. Point slide-switch to "RUN".
  2. 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

1. Point slide-switch to "RUN"
2. Press **PROG** to review

### How to set Programs

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

### How to use Override **PROG** ⇒ **TIME+** **TIME-** ⇒ **PROG**

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.

- A. **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.
- B. **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

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