TH-0472 Two-Channel Programmer (With Temperature Control) – Installation Instruction

This 2-channel programmer is made to provide ON/OFF control up to 2-zone, with value-added application of temperature-control function, for either Heating or /Cooling. To Reset this programmer

Prior to starting setting program-period, to complete all required setting described in this section is necessary.



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Temperature-Control-function effects in channel "CH " only.

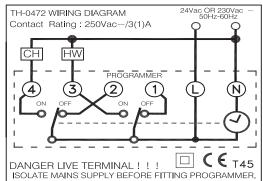
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Special feature **By factory default upon production

- ■12H/24H Clock Format.
- Day-Light Saving. LCD shall indicate "+1hour".
- Temperature control for both Heating/Cooling.
- ■LED ON/OFF status indicator.

Specs & Wiring

- •Power Supply: 1-24 Vac 2-230 Vac
- ◆Ambient Temperature : 0~35°C
- Contact Rating: Voltage-Output 3A(1A)
- Program Memory backup: 3Vdc Lithium CR 2032 (Memory sustains 30 days after power out)
- Blue Backlight.
- •Cabinet Protection Class: IP 20.
- •Standard British system wiring back-plate.



P or G mode selection



P-To program each of 2-Channel independently (HW N),

СН **ШШ**°)

G-Programming of Channel HW commanded by Channel CH

Recommended: To select **P** in use of this programmer

Day-programming mode selection

PROG OPTION 24H

This 2-channel programmer is able to provide 3- ON/OFF (program-period) per day and

THREE day-programming-mode available for selection:

- ●24 H All 7-day in same programing-block.
- ●5/2d 5-weekday in same programming-block, weekend in same block
- ●7d each day of weekday can be programmed independently, 3 ON/OFF per day.
- ***To slide selection switch to choose preferred mode upon installation.

Frost Protection-selectable range 5~20°C

This Function is set to protect pipes against freezing or to prevent room from low temperature, when programmer is being programmed OFF or manual OFF.

Taking "jumper" which is included in package of this 2-channel programmer, to jumper the 5°C position on back of plastic housing. To reset programmer after.

Flashing sign on LCD (]) indicates this function is activated.

Frost protection temperature setpoint can be changed at using this programmer. Following procedure below;

- •Slide selection switch to "RUN"
- Press all two channels (zones)

programming buttons

- to select manual "OFF".
- ◆Pressing either → or → to set desired frost protection setpoint.
- •Press **ok** to activate.

Temperature Control-selectable range 5~35°C

This is function is made for the purpose of extent application of this 2-channel programmer. With Temperature control, it can function as programmable thermostat. To reset programmer after TEMP was" jumpered"

Reminder: After Temperature-Control activated, temperature setpoint shall take part in commanding programmer's Relay output. After room temperature reached setpoint, Relay output shall be turned off, original ON/OFF programs overrided.

Following procedure below to set setpoint;

- •Slide selection switch to "RUN".
- ●Pressing all two channels (zones) HW SELECT SELECT selection buttons

- •Press ok to activate.

Replacing Battery

Using Flat-head screw-driver to take used battery out from slot, and replacing. Follow procedure description from FIG.1 to 3







FIG-1

TH-0472 Two-Channel Programmer (With Temperature Control) – Programming Instruction In standard production&delivery of this programmer, Jumpers on back of housing which are for adding temperature-control are left open. **Adjusting The Program** Content Beneath the cover on the front of the unit. Resetting the programmer---1 Reviewing Program Setting-----6 slide the selector switch to **PROG SET.** Factory Default------3 Advance Function-------9 Press the 🛨 🖃 buttons to adjust P1 OFF time. Press 🐟 ON/OFF-Period selection----4 Backlight Mode Selection-----10 •Repeat this process to adjust ON & OFF time for P2 & P3. Adjusting The Programs-----5 SELECT and repeat the above process to adjust Press ON & OFF time for CH "" channel. Slide selector switch to RUN. Resetting the programmer It is necessary to press the RESET button prior to initial The program adjusting is now completed. programming. This button is located beneath the cover on the front of the unit. 6 **Reviewing Program Setting** Slide selector switch to RUN. HW SELECT to review HW 📬 channel, pressing 🚺 Press Setting Date & Time Beneath the cover on the front of unit, move to review each of ON/OFF time of P1 to P3. Repeat this selector switch to TIME SET position. SELECT process and Pressing for reviewing •Press the + - buttons to select the month. Press ck. Press the + - buttons to select the day. Press ck.
Press the + - buttons to select the hour. Press ck. CH IIII channel. • Press the + buttons to select the minute. Press . •The Date & Time are now set. Move selector switch to "RUN" **Holiday Mode** to run the program, or to "PROG SET" to change Beneath the cover on the front of the unit. program setting. •Ensure selector switch is in the RUN position. • Press the Holiday . Display will flash as shown on LCD screen. • Press 😝 🔁 to adjust the holiday period required. Press 🕏 . Program Setting-Factory Default Setting Programmer is now "off" for the selected number of days. 7 d AII P1 ON P1 OFF P2 ON P2 OFF P3 ON P3 OFF Press again will cancel Holiday Mode executing, 7 days 14:00 16:30 8:30 12:00 programmer will return to normal setting. 5/2 d P1 ON P1 OFF P2 ON P2 OFF P3 ON P3 OFF Mon~Fr 14:00 6:30 8:30 12:00 16:30 22:30 8 Sat~Sun 7:30 10:00 14:00 17:00 23:00 **Boost Function** If the channel that you wish to BOOST is already switched ON, 24 H P3 OFF P1 ON P1 OFF P2 ON P2 OFF P3 ON you have the facility to extend the ON period for 1,2,3 hours. 12:00 14:00 If the channel that you wish to BOOST is already switched OFF, you have the facility to switch it ON for 1,2,3 hours. BOOST for **HW** channel, L Press for CH channel, ON/OFF Period Selection There are 5 modes available on this programmer for users to 9 choose to actual application demand. Advance Function ON 3 2 1 OFF - The programmer is permanently on. This function allows the user to reverse currently output ON 32 1 OFF - The programmer operates 3-ON/OFF periods status until next opposite setpoint. If the output is currently perday. AUTO switched off and the ADVANCE is pressed, the output will be ON 321 OFF - The programmer operates 2-ON/OFF periods switched on until the time that the following program calls for per day. This operates the first ON/OFF time off". Vice versus. and the third ON/OFF time, ignoring the second ON/OFF time. This is factory default Keep to press ADVANCE, output status will alternate between setting. AUTO on & off status. ON 32 OFF -The programmer operates 1-ON/OFF period per day. This operates from the first ON time Press ADVANCE for HW channel, MANAGE for CH channel to the third OFF time. All Day **ON 3 2 1** • The programmer is permanently off. **Backlight Mode Selection** Move selection switch to "RUN" Two mode for selection, 1. AUTO: Backlight lit on for 10seconds after pressing any functional key. 2. ON: Backlight Permanent on. Beneath the cover on the front of the unit, by pressing Slie selector switch to RUN ,you can change between "ON 3 2 1 OFF" for Press for 5 seconds. Repeat this process for CH "channels HW schannel. Press or \blacksquare to select. Press again. by pressing Now Backlight Mode Selection is completed.