



Programming Instructions

Setting Up the Programmable Zone Sensor

SAFETY WARNING
Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

4

System Symbols:

= System is in the cooling mode.

= System is in the heating mode.

= Emergency heat (HP only). Used by facility operators or service technicians only.

= System Auto. The system automatically switches between heating and cooling as needed.

= System is Off.

1

Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe

NOTICE

Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth’s naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants-including industry replacements for CFCs such as HCFCs and HFCs.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

2

WARNING

Proper Field Wiring and Grounding Required!
Failure to follow code could result in death or serious injury. All field wiring **MUST** be performed by qualified personnel. Improperly installed and grounded field wiring poses **FIRE** and **ELECTROCUTION** hazards. To avoid these hazards, you **MUST** follow requirements for field wiring installation and grounding as described in NEC and your local/state electrical codes.

WARNING

Personal Protective Equipment Required!
Installing/servicing this unit could result in exposure to electrical, mechanical and chemical hazards. Before installing/servicing this unit, technicians **MUST** put on all Personal Protective Equipment (PPE) recommended for the work being undertaken. **ALWAYS** refer to appropriate SDS sheets and OSHA guidelines for proper PPE. When working with or around hazardous chemicals, **ALWAYS** refer to the appropriate SDS sheets and OSHA guidelines for information on allowable personal exposure levels, proper respiratory protection and handling recommendations. If there is a risk of arc or flash, technicians **MUST** put on all necessary Personal Protective Equipment (PPE) in accordance with NFPA70E for arc/flash protection **PRIOR** to servicing the unit. Failure to follow recommendations could result in death or serious injury.

WARNING

Follow EHS Policies!
Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company’s Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

3

The following procedures show how to set up the programmable zone sensor for operation using the keypad and display. Procedures begin at the home screen.

Locking or Unlocking the Keypad

You can lock the keypad to prevent changes, unlock it to make changes as follows

- Begin at the home screen.
- Press and simultaneously for four seconds.

The locked symbol appears on the display if the keypad is locked. If you press a keypad button, the locked symbol flashes three times.

Locked Symbol:

= Locked

Changing the System Setting

To select the system setting, perform these steps:

- Begin at the home screen.
- Press twice. The heating/cooling symbols flash.
- Press and until the desired system symbol flashes.
- To confirm the setting, press or wait 10 seconds. The home screen will appear.

5

Changing the Fan Setting (CV/HP Configuration only)

To change the fan setting, perform these steps:

- Begin at the home screen.
- Press twice. The heating/cooling symbols flash.
- Press once.
- Press and until the desired fan symbol flashes.

Note: The sensor can be configured for programmable fan operation. If this feature is enabled, fan operation is controlled by the schedule. If you attempt to change the fan setting, the sensor display will change to temporary override setup. See “Temporary Override Setup” to override the fan setting.

- To confirm the setting, press or wait 10 seconds. The home screen will appear.

Fan Symbols:

= Fan Auto. The fan automatically powers On and Off as needed to reach the selected temperature.

= Fan On. The fan is powered On.

6

Setting the Time and Day

To set the time and the day of the week, perform these steps:

- Begin at the home screen.
- Press twice. The heating/cooling symbols flash.
- Press three times.
- Press and to select the hour. The hour flashes.
- Press or to change the hour.
- Press to select the minutes. The minutes flash.
- Press or to change the minutes.
- Press to select the days of the week. All days of the week appear, and the currently selected day flashes.
- Press and to change the day.
- To confirm the settings, press for two seconds or wait 10 seconds. The home screen will appear.

Time and Day Display:

Mo

8:30 AM

= Day of the week and time clock.

Creating a Schedule

The programmable zone sensor has a feature that “copies” the schedule for one of the five week days to the other four week days, and one of the two weekend days to the other weekend day. To use this feature, the sensor must be configured for seven

7

programmable days per week and scheduling must be completely blank. If you set a complete schedule for any one weekday, that schedule will be copied to the other four weekdays. If you set a complete schedule either Saturday or Sunday, the schedule will be copied to the other weekend day. You can modify each day individually, as necessary.

Note: Press the test/config button to save and exit while in schedule mode.

- Enter setup mode:
 - Begin at the home screen.
 - Press twice. The heating/cooling symbols flash.
- Set the day of the week.
 - Press twice. The schedule symbols are selected and all other symbols disappear.
 - Press and to select the days of the week. All days of the week appear and **Mo** (Monday) flashes.
 - Press and until the day of the week you want to schedule flashes.
 - Press to select the day and move to the period of the day. All periods appear and the first period (morning) flashes.
- Set the period of the day.
 - Press and to select the period of the day you want to schedule.
 - Press to select the period and move to the start time. The selected period start time flashes (or dashes flash if nothing has been set).
- Set the start time.

8

- Press  or  to change the period start time.
 - Press  to set the start time and move to occupancy. Both occupancy symbols appear and the selected symbol flashes.
- Set the occupancy. Press  and  to select the occupancy setting you want for the period you are scheduling.
 - Set the heating setpoint.
 - Press  to select the heating setpoint. The bottom arrow of the setpoint symbol and the heating symbol flash. The active heating setpoint appears (or dashes if nothing has been set).
 - Press  or  to change the heating setpoint for the period you are scheduling.
 - Set the cooling setpoint.
 - Press  to select the cooling setpoint. The top arrow of the setpoint symbol and the cooling symbol flash. The active cooling setpoint appears (or dashes if nothing has been set).
 - Press  or  to change the cooling setpoint for the period you are scheduling.
 - Select the fan setting.
 - Press  to select the fan setting. The fan setting appears and the currently selected fan setting flashes.
Note: CV/HP only, and only if the programmable fan option is enabled.
 - Press  and  to select the fan setting for the period you are scheduling.
 - Confirm the schedule settings. Press  and hold for 2 seconds, or wait 30 seconds. The home screen will appear.

9

Scheduling Symbols:

 = Scheduling setting is selected (Step 1).


Mo Tu We Th Fr Sat Su = Days of the week is selected (Step 2).

 = Periods of the day is selected (Step 3).
Morning, Day, Evening, Night

-- : -- = Period start time is selected (Step 4).

  = Occupancy setting is selected (Step 5).

 = Heating setpoint is selected (Step 6).

 = Cooling setpoint is selected (Step 7).

AUTO  = Fan Auto. The fan automatically powers On and Off as needed to reach the selected temperature (Step 8).

 = Fan On. The fan is powered On (Step 8).

10

Scheduling for VAV Occupied Periods

To schedule for VAV occupied periods, follow the steps below:

- To start, perform the following steps to enter setup mode:
 - Begin at the home screen.
 - Press  twice. The heating/cooling symbols flash.
- Set the day of the week.
 - Press  twice. The schedule symbols are selected and all other symbols disappear.
 - Press  and  to select the days of the week. All days of the week appear and **Mo** (Monday) flashes.
 - Press  and  until the day of the week you want to schedule flashes.
 - Press  to select the day and move to the period of the day. All periods appear and the first period (morning) flashes.
- Set the period of the day.
 - Press  and  to select the period of the day you want to schedule.
 - Press  to select the period and move to the start time. The selected period start time flashes (or dashes flash if nothing has been set).
- Set the start time.
 - Press  or  to change the period start time.
 - Press  to set the start time and move to occupancy. Both occupancy symbols appear and the selected symbol flashes.

11

- Set the occupancy. Press  and  to select the occupancy setting you want for the period you are scheduling.
- Set the warmup setpoint.
 - Press  to select the warmup setpoint. The bottom arrow and the active period will flash.
Note: Only if the heat installed option is enabled.
 - Press  or  to change the setpoint.
 - Press  to select the supply air heating setpoint.
- Set the supply air heating setpoint.
 - The bottom arrow of the setpoint symbol, the heating symbol, and the fan and arrow outlines all flash.
Note: Only if the modulated heat option is enabled.
 - Press  or  to change the setpoint.
 - Press  to select the supply air cooling setpoint.
- Set the supply air cooling setpoint.
 - The top arrow of the setpoint symbol, the cooling symbol, and the fan and arrow outlines all flash.
 - Press  or  to change the setpoint.
- To confirm the schedule settings, press  and hold for 2 seconds, or wait 30 seconds. The home screen will appear.

Related Symbols:

 = Scheduling setting is selected (Step 1).


12

Mo Tu We Th Fr Sat Su = Days of the week is selected (Step 2).

 = Periods of the day is selected (Step 3).
Morning, Day, Evening, Night

-- : -- = Period start time is selected (Step 4).

  = Occupancy setting is selected (Step 5).

 = Warmup setpoint is selected (Step 6).

 = Supply air heating setpoint is selected (Step 7).

 = Supply air cooling setpoint is selected (Step 8).

13

Temporary Override Setup (CV/HP Only)

To override a setting for a specified period of time, follow the steps below:

- Begin at the home screen.
- Press  or . The current temperature setpoint appears.
- Within 5 seconds of completing step 1, press  to raise the setpoint or  to lower the setpoint. The thermostat enters timed override mode, giving you the opportunity to specify the other parameters of the override.
 - The override symbol flashes and continues flashing throughout the procedure.
 - Either the heating or cooling setpoints symbol flashes.

Note: The current zone temperature determines whether the heating or cooling setpoint symbol appears first.
- Press  or  to move between the heating and cooling setpoint.
- Press  or  to increase or decrease the heating or cooling setpoint.
- Press  to override the fan setting (if starting from the heating setpoint, press  twice). Press  or  to change between Auto and On.
Note: Only if the programmable fan option is enabled.
- Press  to specify the amount of time the override lasts. Press  or  to select the number of hours. If your override time

14

is over 23 hours, press  or  to select days. Press  or  to select the number of days.

- To override occupancy, press  (if starting from days, press twice). The occupancy symbol flashes. Press  or  to change between occupied and unoccupied.
- To confirm your override settings, press  and hold 2 seconds, or wait 15 seconds. The home screen appears with the override symbol on it.

Note: To delete override settings, select temporary override setup and press the Test/Configuration button. The home screen appears without the override symbol.

Related Symbols:

 = The heating setpoint symbol flashes when selected.

 = The cooling setpoint symbol flashes when selected.

 = The override symbol flashes throughout the temporary override setup operation.

 = The fan setting flashes when selected.

15

 = The time setting for override setup.
DAYS HOURS

  = The occupancy setting symbol flashes when selected.

 = The temporary override symbol appears on the display and stays on while an override is present.

Trane - by Trane Technologies (NYSE: TT), a global climate innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.