

SIEMENS



RDS120, RDS120.B **Smart Thermostat** **Commissioning**

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1 Summary

1.1 Brief description

Smart Thermostat RDS120/RDS120.B is designed to control the heating/cooling system in apartments, single family homes, dormitories, public buildings, and other residential-type as well as light commercial spaces. Apart from traditional operations performed directly on the hardware unit, remote operations that use a mobile app are also allowed for your convenience.

1.2 Inbox items

Items	Quantity
Thermostat (front and rear)	1
Metal mounting plates (small & large)	2
Plastic frame	1
Set of screws and drywall anchors	1
Quick guide	1
Mounting instructions	1
Wiring decals	1
Activation code decal	1

1.3 Associated Equipment

Remote sensors


Sensor Type	Model Number	1k Ohm at 32 °F Ni R	1k Ohm Pt RTD	Type 2 Thermistor	0-10 Vdc	Datasheet*
Room Temperature Sensors						
- Wall-mount	QAA2220.EW SN	x				149-714
	QAA2212.EW SN		x			149-714
	QAA2230.EW SN			x		149-714
	QAA22SS.EW SN				x	149-714
- Flush-mount ¹⁾	540-984 (Metal)			x		149-956
	536-994A (Beige)			x		149-956
	536-994B (White)			x		149-956
- Duct-	QAM2030.010			x		149-915

Sensor Type	Model Number	1k Ohm at 32 °F Ni R	1k Ohm Pt RTD	Type 2 Thermistor	0-10 Vdc	Datasheet*
mount	(4")					
Outdoor Temperature Sensors						
	QAC22	x				149-920
	QAC2012		x			149-920
	QAC2030			x		149-920
	QAC3161				x	149-920
Cable Temperature Sensors						
	QAP22	x				149-918
	QAP2012.150		x			149-918
	QAP1030.200			x		149-918
Room Humidity Sensors						
- Wall-mount including temperature	QFA3212.EW SN		x(T)		x (r.h.)	149-714
	QFA32SS.EW SN				x (T+r.h.)	149-714
- Duct-mount including temperature	QFM2160U				x (T+r.h.)	149-991
Indoor Air Quality Sensors						
- CO ₂	QPA2000				x	149-910
- VOC + CO ₂	QPA2002				x	149-910
	QPA2002D ¹⁾				x	149-910
- CO ₂ including temperature	QPA2060				x(CO ₂ +T)	149-910
	QPA2060D ¹⁾				x(CO ₂ +T)	149-910
- Duct-mount CO ₂	QPM2100				x	149-909
- Duct-mount VOC + CO ₂	QPM2102				x	149-909
- Duct-mount CO ₂ including temperature	QPM2160				x(CO ₂ +T)	149-909

* The documents can be downloaded from [Siemens US Download Center](#) by specifying the product number as shown in the above table.

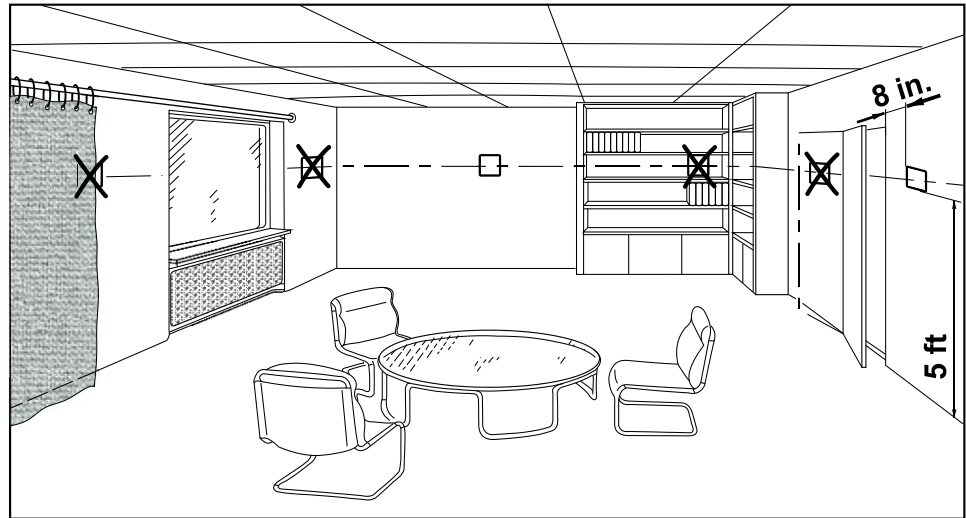
1) With digital display

Replacement Part

Description	Model Number	Orderable Part Number
Plastic trim plate and metal mounting plate for 2" x 4" box (1 set)		ARG100.01
		S55772-T102

2 Installation

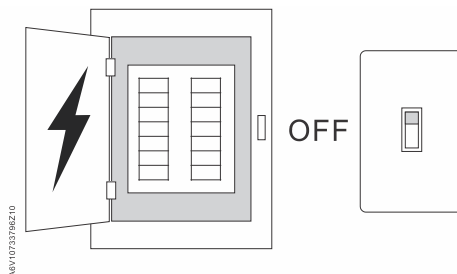
Mounting



- The thermostat is designed for wall mounting.
- The recommended height is 5 feet above the floor.
- Do not mount the thermostat in recesses, shelves, behind curtains or doors, or above or near heat sources.
- Avoid direct exposure to sun and drafts.
- Seal the conduit and/or wall opening, as drafts can affect sensor readings.
- Observe maximum ambient conditions.

Installing the thermostat

1. Switch off power to the heating/cooling system at the breaker or system power switch.



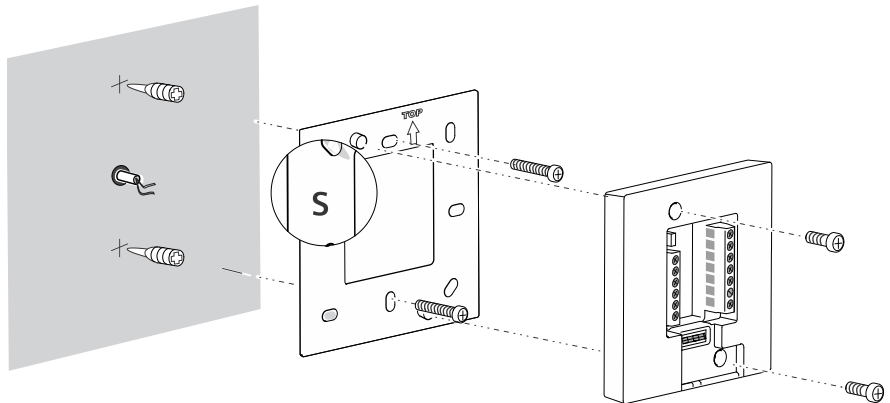
2. Remove the old thermostat from the wall with wires still connected.
3. Using the provided wire decals, label the existing wire connections. It is also helpful to take a picture of the current wire connections for subsequent reference.

X1	X2	Y1	Y2	RC	RH	RDS 1 2 0
X1	X2	Y1	Y2	RC	RH	
G	C	M	M	W1 O/B	W2 AUX	W3 UNIV
G	C	M	M	W1 O/B	W2 AUX	W3 UNIV

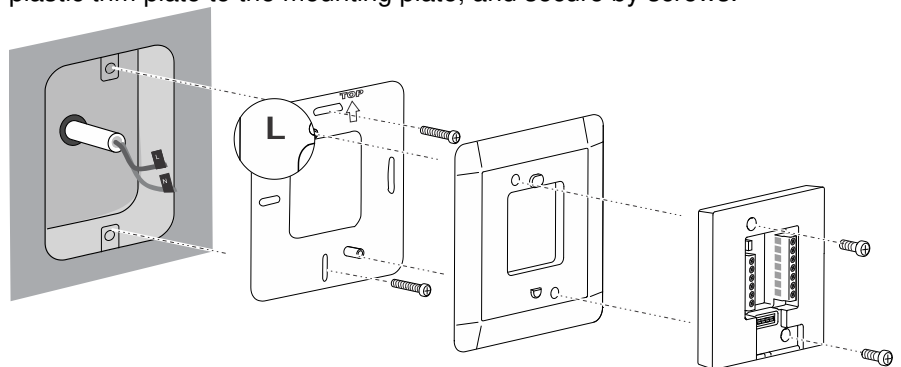
4. Disconnect all the labeled wires and then remove the old thermostat.
NOTICE! Do not discard the old thermostat in the trash if it contains

mercury. Contact a thermostat recycling organization, for example, www.thermostat-recycle.org, for safe disposal of the old thermostat.

5. Check whether more wires are needed to bring AC 24 V power from the HVAC equipment to the thermostat. If yes, prepare the wires and label them accordingly.
6. Seal the conduit and/or wall opening to prevent entrance of cold or warm air and ensure accurate temperature readings by the internal sensor.
7. Install the mounting plate and power unit.
 - If you are mounting the thermostat directly on a wall, screw the small mounting plate enclosed with the thermostat snugly on the wall using a screwdriver, making sure that the mounting plate is placed correctly (the part with the upward arrow is placed on the top), and then screw the power unit on the mounting plate.

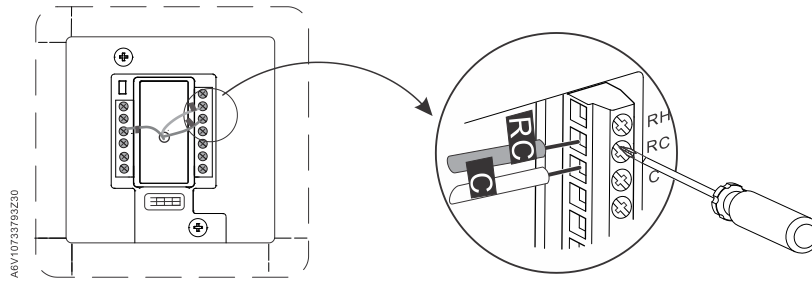


- If you are mounting the thermostat on a conduit box, install the metal mounting plate enclosed with the thermostat tightly on the conduit box (making sure that the upward arrow part is placed on the top), attach the plastic trim plate to the mounting plate, and secure by screws.

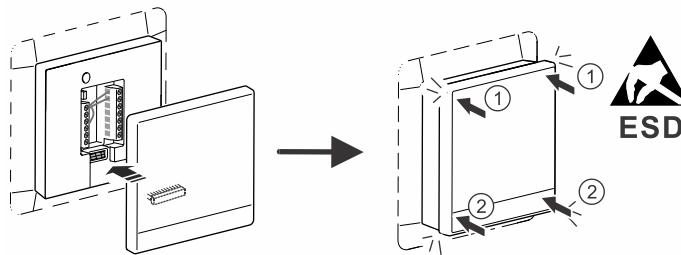


Tip: Before installing the power unit, it is highly recommended the labeled wires be connected to the terminals snugly according to the thermostat terminal designations (you may also refer to the picture taken in Step3). Do not overtighten.

NOTICE! a) The following illustration is for reference, which may be different from the wiring for your application. b) The thermostat only works with low-voltage wires (AC 24 V), so it is very important to make sure that the thermostat is not connected to high-voltage wires.



8. Attach the front module horizontally, making sure that each side of the front module fully aligns with that of the power unit, and then press the corners following the order described in the following illustration until you hear a click sound. Note that you need to discharge the static electricity on your body before mounting the front module. For example, touching the wall could help on Electro-Static discharge (ESD).



9. Switch on power to the heating/cooling system. The thermostat should be powered up as well.

Wiring



See [Mounting instructions](#) for more information.

- Observe local codes regarding wire type, overcurrent protection and ground.
- For HVAC systems with a single transformer, the RH-RC jumper must remain in place. If separate transformers are used for heating and cooling systems, remove the RH-RC jumper.
- AC 24 V supply line must have a circuit breaker with a rated current of no more than 4 A. The total current rating should not exceed 3.3 A. For AC 24 V US installations, use Class 2 transformers.
- Disconnect from power supply before removing the front module and the mounting plate.

3 Setup wizard

When the thermostat is powered up for the first time, a setup wizard displays to guide you through the following procedures:

- Setting a display language
- Setting an administrator password
- Setting up a network connection and choosing the network connection type
- Selecting an equipment type and setting up the details
- Configuring date
- Specifying a name to the location where the thermostat is installed

For more details, see the [Quick guide](#).

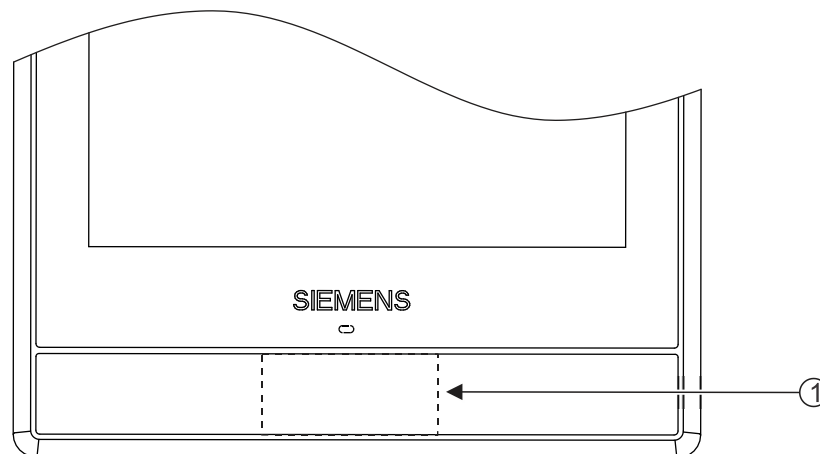
4 Presence detection

4.1 Presence detection using the built-in PIR sensor

By using a built-in presence detection sensor (also called PIR (Passive infrared detector) sensor), the thermostat can detect the space occupancy and then do the following:

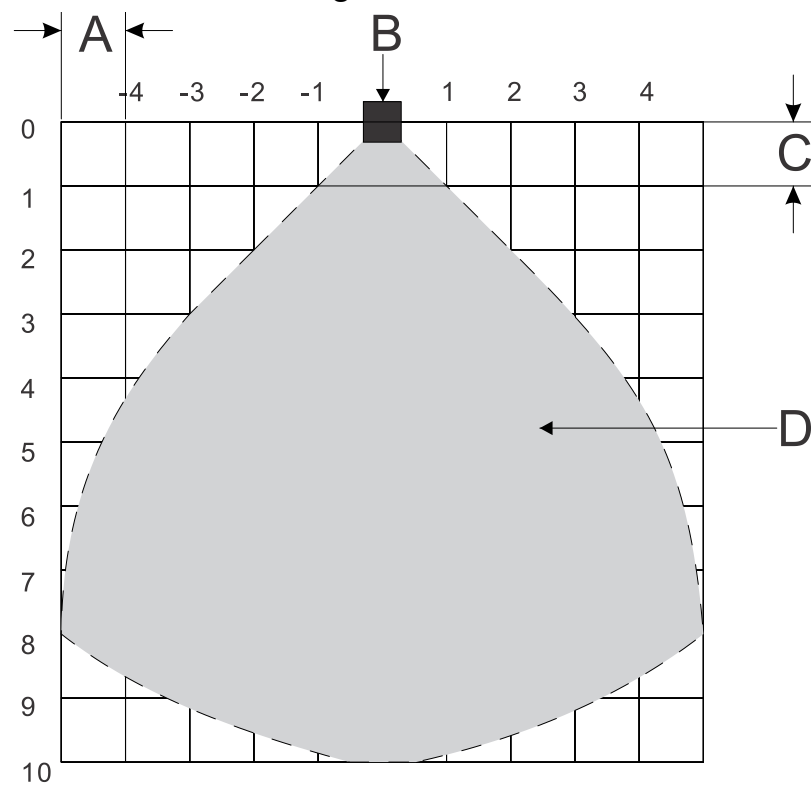
- Activate the idle display. When no operations are performed, the thermostat detects whether someone is in the room or not. If it detects someone is in the room, it displays information such as room temperature, room air quality and relative room humidity. If it detects no one is in the room, it turns off the screen.
- Change the operating mode from **Unoccupied** to **Comfort**. If an unoccupied room is detected to be occupied when a scheduled **Unoccupied** mode is running, the thermostat switches to **Comfort** automatically until the next scheduled mode starts. However, you can decide not to switch to **Comfort** if you want. For more information about operating modes, see the [User guide](#).

Sensor position








- | | |
|---|--|
| 1 | The location of the PIR sensor. It is a black area if seen from the front of the front module. |
|---|--|

Sensor detection range



A	The width of each cell. It is 80 cm (31 in).
B	The thermostat.
C	The height of each cell. It is 80 cm (31 in).
D	The area that the PIR sensor can detect.

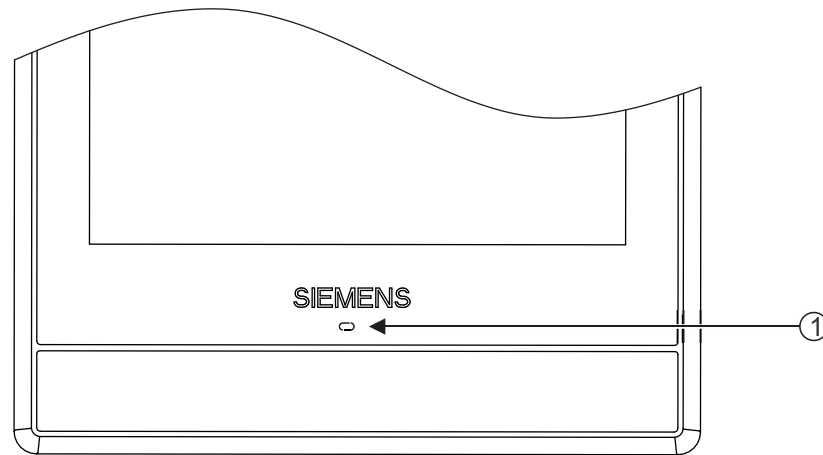
To disable the switch from Unoccupied to Comfort even if the room is occupied

1. From the Home screen, tap , tap < and then tap .
2. If prompted, enter the administrator password.
3. Tap , tap , and then tap . Scroll down and tap **Room presence detector**.
4. Drag the slider to the left if **Active** is displayed on the screen.

4.2 Approach detection

The thermostat has a built-in approach sensor. It can detect someone approaching the thermostat. If activity is sensed within 10 cm, it will switch from its idle screen to the main home screen with full temperature and setpoint display.

Sensor position



1	The location of the approach sensor.
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5 Changing system setup

Go to **Advanced Settings** if necessary to reconfigure initial setup options and change some other default system setup options as desired.

Changing basic configurations

Changing the basic configurations of the thermostat is to select either **Conventional** or **Heat pump** and adjust the basic heating/cooling settings for the selected equipment type.

To change the basic configurations

1. From the Home screen, tap , tap < and then tap .
2. If prompted, enter the administrator password.
3. Tap  and then tap .
4. Tap **OK** to stop all of the thermostat's applications. The thermostat restarts.
5. After the restart is completed, tap **Equipment** and then tap **Adapt**.
6. Select the equipment type that you want to change settings for.
7. If **Conventional** is selected, change the heating/cooling stage value or fan operation condition as desired (you can decide if the fan operates when heating is energized).
8. If **Heat pump** is selected, change the following as needed:
 - Heating/cooling stage value.
 - Reversing valve's operating condition. You can decide to energize the reversing valve for heating or cooling.
 - Auxiliary heating stage and operation condition. Two auxiliary heating stages are available. Once you've selected one stage, you can decide if the auxiliary heating device is allowed during heat pump operation. Normally, when the heat pump is running, an auxiliary electrical heating system is allowed but an auxiliary gas heating system is not.

NOTE: Refer to the following part to configure some other relevant advanced settings.

Changing extended configurations

By changing extended configurations, you can:

- Change input assignments. Before any reconfigurations or changes to another input, it is strongly recommended corresponding peripheral devices be connected to terminal X1 or X2. The input can be:
 - Room temperature
 - Operating mode switch




The thermostat switches to the **OFF** mode if the input is configured as **Normally open**. For example, if a thermostat in a hotel is configured to **Normally open** for this input, when a hotel guest pulls out the room card, it activates **Normally open**. The thermostat switches to the **OFF** mode. Once the room card is inserted again, the thermostat restarts the previously running mode.

If the X1 or X2 input is assigned as **Operating mode switch** and configured as **Normally open** but physically terminal X1/X2 is not connected with any corresponding peripheral devices, the thermostat may switch to the **OFF** mode in the end and refuse to function normally unless you change to another input.
 - Universal contact. A sensor can be associated with X1, X2 as a universal contact (binary input), e.g. a window detection sensor. By default, this input is configured as **Normally open**. With the binary input from the universal contact, a notification can be shown in the mobile application:
 - If configured as **Normally open**: notification if connection status is **closed**. If the status switches to **open**, the notification disappears.

- If configured as **Normally closed**: notification if connection status is **open**. If the status switches to **closed**, the notification disappears. There is no direct application operation based on the universal contact status change.
- Outside air temperature
- Room air humidity
- Presence detector
- Condensation monitor. If the thermostat receives an input from a condensation monitor, it will display a notification on the mobile app. The thermostat does not alter operation based on this input.
- Room air quality
- Change input signal types based on the assigned input type. The following signal types are supported:
NOTICE! If the corresponding application hasn't been configured, some inputs may not be selectable.
 - Digital input, normally open or closed
 - 1k Ohm @ 32 F Ni RTD (LG-Ni1000)
 - 1k Ohm Pt. RTD (385a)
 - 1k Ohm Pt RTD (375a)
 - Type 2 Thermistor
 - 0 to 10 V*
- Set sensor evaluation mode if an external sensor is connected to either terminal X1 or X2. You can use either the built-in and external sensors, or the external sensors, for controlling and monitoring. The former is selected by default. However, if no physical external sensors are connected to any control inputs or if the input values are invalid, only the built-in sensors are used instead to provide values for the thermostat. If external sensors are connected and can provide valid values with the built-in sensors, the thermostat reacts differently depending on the type of the external sensor:
 - Displays the average value if it is an external temperature or humidity sensor.
 - Takes the higher value if it is an external VOC sensor.
 - Enable presence detection related functions no matter whether it is the external or the built-in presence detection sensor detects that someone is in the room.
- If the selected equipment type is **Heat pump**, decide if the heat pump shall be switched off below a certain outside air temperature. If yes, specify the default temperature value. Note that an external outside air temperature sensor is required to be connected with the thermostat to get the outside temperature.
- If the selected equipment type is **Heat pump** and auxiliary heating is allowed to operate when the heat pump is running, you can decide if the auxiliary heating device shall be switched off above a certain outside air temperature. If yes, specify the default temperature value. Note that an external outside air temperature sensor is required to be connected with the thermostat to get the outside temperature.
- Configure the output as a humidifier, humidifier free-standing, dehumidifier, dehumidifier free-standing or an outside air damper.
- Activate or deactivate dehumidification. If the output is not configured as a dehumidifier or dehumidifier free-standing, the thermostat takes use of the heat pump or cooling system to dehumidify the space. However, the heat pump turns off cooling (if cooling operation is running) whenever there is a dehumidification command.
- Activate or deactivate ventilation. Only when the output is configured as an outside air damper can the ventilation function be activated. The ventilation function is mainly used to improve the room air quality when the room is detected to have worse air quality than the configured room air quality setpoint under the **Optimization** page.




*) If 0 to 10 V is selected as the signal type, a DC 0 to 10 V active sensor must be connected with the thermostat. Otherwise, the calculated value may not be accurate.

To change the extended configurations

1. On the **Advanced Settings** page, tap .
2. If prompted, enter the administrator password.
3. Tap  and then tap .
4. Tap **OK** to stop all the thermostat's applications. The thermostat restarts.
5. After the restart is completed, tap **I/O** and then tap **Adapt**.
6. Change the settings as desired.

Resetting the thermostat You can reset the thermostat to its original factory settings. However, all user data but the association with mobile application accounts will be erased after factory resetting. Note that though the thermostat is still associated with the original account after the factory resetting, its connection status in the mobile application shows as offline until the thermostat connects to a network successfully.

To perform a factory reset

1. On the **Advanced Settings** page, tap .
2. If prompted, enter the administrator password.
3. Tap  > .
4. Tap **OK** to stop all of the thermostat's applications. The thermostat restarts.
5. After the restart is completed, tap **Factory Reset**.
6. Tap **Reset**. The thermostat is reset and restarted.

NOTE: After the thermostat is restarted, the setup wizard appears for easy commissioning. Refer to the [Quick guide](#) for the detailed setup information.

6 Managing application settings

NOTE:

- Parameter availability depends on your selected application for the thermostat.
- Numbers marked in the following tables are only for easy readability in this document. They don't represent the parameter numbers in the local thermostat.

Multi-functional inputs

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
1.	X1 room temp. ref. at 0V	Calibrates thermostat to low end of temperature sensor signal (for example, 0 V = 32 °F)	32 °F (0 °C)	-58...176 °F (-50...80 °C)	A DC 0 to 10 V external room temperature sensor must be connected with the thermostat using terminal X1.
2.	X1 room temp. ref. at 10V	Calibrates thermostat to high end of temperature sensor signal (for example, 10 V = 122 °F)	122 °F (50 °C)	-58...176 °F (-50...80 °C)	
3.	X2 room temp. ref. at 0V	Calibrates thermostat to low end of temperature sensor signal (for example, 0 V = 32 °F)	32 °F (0 °C)	-58...176 °F (-50...80 °C)	A DC 0 to 10 V external room temperature sensor must be connected with the thermostat using terminal X2.
4.	X2 room temp. ref. at 10V	Calibrates thermostat to high end of temperature sensor signal (for example, 10 V = 122 °F)	122 °F (50 °C)	-58...176 °F (-50...80 °C)	
5.	Outside temp. ref. at 0V	Calibrates thermostat to low end of temperature sensor signal (for example, 0 V = -58 °F)	-58 °F (-50 °C)	-58...176 °F (-50...80 °C)	A DC 0 to 10 V external outside air temperature sensor must be connected.
6.	Outside temp. ref. at 10V	Calibrates thermostat to high end of temperature sensor signal (for example, 10 V = 176 °F)	176 °F (80 °C)	-58...176 °F (-50...80 °C)	

Heating setpoints

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
7.	Comfort heating setpoint	Scheduled heating setpoint when space is occupied. This setpoint must be higher than that for Protection .	70 °F (21 °C)	32...122 °F (0...50 °C)	N/A
8.	Economy heating setpoint	Scheduled heating setpoint during transition from Unoccupied to Comfort . This setpoint must be higher than that for Protection .	66 °F (19 °C)	32...122 °F (0...50 °C)	N/A
9.	Unoccupied heating setpoint	Scheduled heating setpoint when space is unoccupied. This setpoint must be higher than that for Protection .	59 °F (15 °C)	32...122 °F (0...50 °C)	N/A
10.	Protection heating setpoint	Heating setpoint if the operating mode is Off and Protection is enabled.	45°F (7 °C)	32...122 °F (0...50 °C)	This setpoint is valid only if the default Protection option is selected for Application setting No. 57.
11.	Max. heating setpoint	Maximum allowable heating setpoint.	95°F (35 °C)	32...122 °F (0...50 °C)	

Cooling setpoints

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
12.	Comfort cooling setpoint	Scheduled cooling setpoint when space is occupied. This setpoint must be higher than all the heating setpoints and lower than the cooling setpoint for Protection .	75 °F (24 °C)	32...122 F (0...50 °C)	N/A
13.	Economy cooling setpoint	Scheduled cooling setpoint during transition from Unoccupied to Comfort . This setpoint must be higher than all the heating setpoints and lower than the cooling setpoint for Protection .	77 °F (25 °C)	32...122 F (0...50 °C)	N/A
14.	Unoccupied cooling setpoint	Scheduled cooling setpoint when space is unoccupied. This setpoint must be higher than all the heating setpoints and lower than the cooling setpoint for Protection .	86 °F (30 °C)	32...122 F (0...50 °C)	N/A
15.	Protection cooling setpoint	Cooling setpoint if the operating mode is OFF and Protection is enabled. This setpoint must be higher than all the heating setpoints.	95 °F (35 °C)	32...122 F (0...50 °C)	This setpoint is valid only if the default Protection option is selected for Application setting No. 57.
16.	Min. cooling setpoint	Minimum allowable cooling setpoint.	45 °F (7 °C)	32...122 F (0...50 °C)	The cooling protection setpoint is valid only if the default Protection option is selected for Application setting No. 57.

Humidity setpoints

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
17.	Comfort humidity setpoint	Scheduled humidification setpoint when space is occupied. This setpoint must be higher than that for Protection .	40%RH	0...100%RH	Displays only if the output is configured as "Humidifier (no fan).
18.	Economy humidity setpoint	Scheduled humidification setpoint during transition from Unoccupied to Comfort . This setpoint must be higher than that for Protection .	40%RH	0...100%RH	
19.	Unoccupied humidity setpoint	Scheduled humidification setpoint when space is unoccupied.	30%RH	0...100%RH	
20.	Protection humidity setpoint	The humidification setpoint if the operating mode is OFF and Protection is enabled. This setpoint must be lower than all the dehumidification setpoints..	30%RH	0...100%RH	This setting displays only if the output is configured as Humidifier (no fan) or Humidifier (fan) min. ON time . This setpoint is valid only if the default Protection option is selected for Application setting No. 57.

NOTE: Humidification control works with a PID algorithm. The algorithm continuously monitors the difference between the humidity setpoint for humidification and the measured relative air humidity in the room and switches the humidifier ON and OFF automatically to keep the humidity above the setpoint. It's not possible to switch the humidifier ON and OFF manually. Changing the setpoint will affect the humidification control to verify the functionality.

Dehumidification setpoints

No	Application settings	Descriptions	Factory settings	Range	Dependencies
21.	Comfort dehum. setpoint	Scheduled dehumidification setpoint when space is occupied. This setpoint must be lower than that for Protection .	60%RH	0...100%RH	Displays only if the output is configured as Protection or Dehumidifier (fan) .
22.	Economy dehum. setpoint	Scheduled dehumidification setpoint during transition from Unoccupied to Comfort . This setpoint must be lower than that for Protection .	60%RH	0...100%RH	
23.	Unoccupied dehum. setpoint	Scheduled dehumidification setpoint when space is unoccupied.	70%RH	0...100%RH	
24.	Protection dehum. setpoint	The dehumidification setpoint if the operating mode is OFF and Protection is enabled. This setpoint must be higher than all the humidification setpoints for Protection .	70%RH	0...100%RH	This setting displays only if the output is configured as Dehumidifier (no fan) . This setpoint is valid only if the default Protection option is selected for Application setting No. 57.
25.	Max. deviation heating f. dehumidification	Dehumidification is only allowed when the temperature difference between the current setpoint and the room temperature is within the set value.	3 K	0...10 K	The dehumidification function must be enabled during the configuration of input and output.

NOTE: Dehumidification control works with a PID algorithm. The algorithm continuously monitors the difference between the humidity setpoint for dehumidification and the measured relative air humidity in the room and switches the dehumidifier ON and OFF automatically to keep the room humidity below the setpoint. It's not possible to switch the dehumidifier ON and OFF manually. Changing the setpoint will affect the dehumidification control to verify the functionality.

Room air quality setpoints

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
26.	Comfort air quality setpoint	Scheduled air quality setpoint when space is occupied. This setpoint must be lower than that for Protection .	900 ppm	0...2000 ppm	Displays only if the output is configured as an outside air damper in section Changing system setup [→ 13].
27.	Economy air quality setpoint	Scheduled air quality setpoint during transition from Unoccupied to Comfort . This setpoint must be lower than that for Protection .	1100 ppm	0...2000 ppm	
28.	Unoccupied air quality setpoint	Scheduled air quality setpoint when space is unoccupied.	1500 ppm	0...2000 ppm	
29.	Protection air quality setpoint	The air quality setpoint if the operating mode is OFF and Protection is enabled.	1500 ppm	0...2000 ppm	

Functions

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
30.	Humidity control in heating only	Humidification allowed only when heating system is energized.	No	N/A	The output must be configured as a humidifier.
31.	Free cooling	Enables free cooling by opening the outside air damper.	No	N/A	The output must be configured as an outside air damper.
32.	Room presence detector	The thermostat switches from Unoccupied to Comfort when occupancy is detected.	Active	N/A	N/A

Temperature offsets

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
33.	Built-in temp. sensor adj.	Temperature offset value for the built-in room temperature sensor.	0 K	-5...5 K	Valid only if the built-in temperature sensor is used to measure the temperature.
34.	X1 temp. sensor adj.	Temperature offset value for the X1 temperature sensor.	0 K	-5...5 K	Valid only if an external room temperature sensor is connected using X1.
35.	X2 temp. sensor adj.	Temperature offset value for the X2 temperature sensor.	0 K	-5...5 K	Valid only if an external room temperature sensor is connected using X2.

Switchover time adjustment

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
36.	Electric heating coil fan overrun	Fan will remain energized for this amount of time after heating is de-energized.	30 s	0...600 s	The thermostat must be set to activate fan in heating mode. If heat pump, at least one stage of aux. heat must be enabled.
37.	Damper min. ON time	Minimum time that outside air damper will remain energized.	3 min	0...60 min	
38.	Damper min. OFF time	The minimum time between outside air damper cycles.	3 min	0...60 min	
39.	Fan min. ON time	Minimum run time for fan when controlled by thermostat.	3 min	0...60 min	A fan operation condition must be set during equipment type selection.
40.	Fan min. OFF time	Minimum off time for fan when controlled by thermostat.	3 min	0...60 min	
41.	Changeover delay for heating/cooling	The minimum off time before switching between heating and cooling.	300 s	30...600 s	Heat pump must be selected as the equipment type.
42.	HP	Minimum run time	3 min	0...60 min	





No.	Application settings	Descriptions	Factory settings	Range	Dependencies
	compressor min. ON time	for compressor(s) in heat pump systems.			
43.	HP compressor min. OFF time	Minimum off time for compressor(s) in heat pump systems.	3 min	0...60 min	
44.	Heating min. ON time	The minimum run time for the heating system.	5 min	3...15 min	
45.	Heating min. OFF time	The minimum off time for the heating system.	5 min	3...15 min	
46.	Cooling min. ON time	The minimum run time for the cooling system	5 min	3...15 min	
47.	Cooling min. OFF time	The minimum off time for the cooling system	5 min	3...15 min	
48.	Humidifier (fan) min. ON time	The minimum run time for the humidifier	3 min	0...60 min	The output must have been configured as a humidifier.
49.	Humidifier (fan) min. OFF time	The minimum off time for the humidifier	3 min	0...60 min	
50.	Dehum. (fan) min. ON time	The minimum run time for the dehumidifier	3 min	0...60 min	The output must have been configured as a dehumidifier.
51.	Dehum. (fan) min. OFF time	The minimum off time for the dehumidifier	3 min	0...60 min	

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
52.	Humidify (no fan) min. ON time	The minimum run time of a standalone humidifier. This minimum limitation protects the humidifier from short cycling.	3 min	0...60 min	The output must have been configured as Humidifier (no fan) in Changing system setup [→ 13].
53.	Humidify (no fan) min. OFF time	The minimum OFF time of a standalone humidifier. This minimum limitation protects the humidifier from short cycling.	3 min	0...60 min	
54.	Dehum. (no fan) min. ON time	The minimum run time of a standalone dehumidifier. This minimum limitation protects the dehumidifier from short cycling.	3 min	0...60 min	The output must have been configured as Dehumidifier (no fan) in Changing system setup [→ 13].
55.	Dehum. (no fan) min. OFF time	The minimum OFF time of a standalone dehumidifier. This minimum limitation protects the dehumidifier from short cycling.	3 min	0...60 min	

Other settings

No.	Application settings	Descriptions	Factory settings	Range	Dependencies
56.	Min.diff.room temp./outs.air temp.f.cool	Free cooling will not be allowed if the difference between room temperature and outdoor temperature is less than this value.	0 K	0...20 K	N/A
57.	Off/protection configuration	Configures whether the thermostat goes to the protection mode or completely turns off in OFF mode.	Protection	Off Protection	N/A
58.	Filter change interval	A specified time interval of replacing the filter. Pre-warning countdown information will remind you of replacing the filter before the time is due.	4380 h	1...8760 h	A fan operation condition must be set during equipment type selection.

To manage application settings

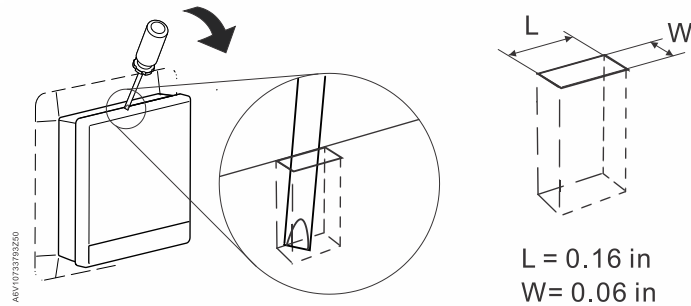
1. From the Home screen, tap , then tap < and .
2. If prompted, enter the administrator password.
3. Tap  > , and then scroll to the specific setting that you want to turn on/off or change to a desired value.
4. Tap to change the setting as desired.

7 Disassembly

The thermostat is designed for maintenance-free operations. Disassembling should only be done after the power supply is off and is only limited to the licensed installers only for disposal purpose. Siemens doesn't guarantee the user's safety if the disassembly process is managed by any unlicensed installers.

Disassembly

1. Turn off the power supply and then use a screw driver to pry the front module off from the hole at the top of the thermostat.



2. If needed, disconnect the cables or detach the rear module by unscrewing the screws anticlockwise. Or, if there is decoration frame, detach it as well by unscrewing the screws.

NOTE: To prevent uncontrolled heating/cooling, remove power from the thermostat before removing the front module.

8 Appendices

8.1 Technical specifications

Please refer to the [datasheet of this product](#) for technical specification details.

8.2 Cyber security disclaimer

Siemens provides a portfolio of products, solutions, systems and services that includes security functions that support the secure operation of plants, systems, machines and networks. In the field of Building Technologies, this includes building automation and control, fire safety, security management as well as physical security systems.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art security concept. Siemens' portfolio only forms one element of such a concept.

You are responsible for preventing unauthorized access to your plants, systems, machines and networks which should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. Additionally, Siemens' guidance on appropriate security measures should be taken into account. For additional information, please contact your Siemens sales representative or visit <https://www.siemens.com/global/en/home/company/topic-areas/future-of-manufacturing/industrial-security.html>.

Siemens' portfolio undergoes continuous development to make it more secure. Siemens strongly recommends that updates are applied as soon as they are available and that the latest versions are used. Use of versions that are no longer supported, and failure to apply the latest updates may increase your exposure to cyber threats. Siemens strongly recommends to comply with security advisories on the latest security threats, patches and other related measures, published, among others, under <https://www.siemens.com/cert/en/cert-security-advisories.htm>.

8.3 Regulatory information

8.3.1 ISED Regulations (Canada)

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference,

and (2) this device must accept any interference, including interference that may cause undesired operation of the device.


Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio

exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne

doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage

radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

8.3.2 FCC Regulations (USA)

	<p>⚠ WARNING</p>
	<p>Modification of this device to receive cellular radio telephone service signals is prohibited under FCC rules and federal law.</p>
	<p>This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p>
	<p>Reorient or relocate the receiving antenna.</p>
	<p>Increase the separation between the equipment and receiver.</p>
	<p>Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.</p>
	<p>This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator & your body.</p>
	<p>Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p>

Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

8.4 EULA

The software included in this product is licensed for use subject to the Siemens end-user license agreement (EULA) posted at www.siemens.com/smart-thermostat or this software identified by product model or part number on the website. The open source software (OSS) information about the software can also be found from the same website.

8.5 BACnet objects (RDS120.B only)

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
1	%R%TRBltn	TRBltn	Built-in room air temperature sensor	0,0	Analog Input	~	°C	0.1	50	0	0.1	~	~	0	~
2	%R%TRBltn_US	TRBltn_US	Built-in room air temperature sensor_US	0,256	Analog Input	~	°F	0.1	122	32	0.1	~	~	0	~
3	%R%HulRelRBln	HulRelRBln	Built-in room air rel.humidity sensor	0,1	Analog Input	~	%RH	1	100	0	1	~	~	0	~
4	%R%AQualRBln	AQualRBln	Built-in room air quality sensor	0,50	Analog Input	~	ppm	10	2000	0	10	~	~	0	~
5	%R%TR(1)	TR(1)	Room temperature 1	0,19	Analog Input	Temperature (LG-Ni1000 - 50...180° C)	°C	0.1	50	0	0.1	~	~	0	~
6	%R%TR(1)_US	TR(1)_US	Room temperature 1_US	0,275	Analog Input	Temperature (LG-Ni1000 - 50...180° C)	°F	0.1	122	32	0.1	~	~	0	~
7	%R%TR(1)	TR(1)	Room temperature 1	0,20	Analog Input	0...10V DC	°C	0.1	50	0	0.1	~	~	0	~
8	%R%TR(1)_US	TR(1)_US	Room temperature 1_US	0,276	Analog Input	0...10V DC	°F	0.1	122	32	0.1	~	~	0	~
9	%R%TR(1)	TR(1)	Room temperature 1	0,21	Analog Input	Temperature (NTC 10K)	°C	0.1	50	0	0.1	~	~	0	~
10	%R%TR(1)_US	TR(1)_US	Room temperature 1_US	0,277	Analog Input	Temperature (NTC 10K)	°F	0.1	122	32	0.1	~	~	0	~
11	%R%TR(1)	TR(1)	Room temperature 1	0,22	Analog Input	Temperature (Pt1000,	°C	0.1	50	0	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
						EU)									
12	%R%TR(1)_US	TR(1)_US	Room temperature 1_US	0,278	Analog Input	Temperature (Pt1000, EU)	°F	0.1	122	32	0.1	~	~	0	~
13	%R%TR(1)	TR(1)	Room temperature 1	0,23	Analog Input	Temperature (Pt1000, NA)	°C	0.1	50	0	0.1	~	~	0	~
14	%R%TR(1)_US	TR(1)_US	Room temperature 1_US	0,279	Analog Input	Temperature (Pt1000, NA)	°F	0.1	122	32	0.1	~	~	0	~
15	%R%TR(2)	TR(2)	Room temperature 2	0,14	Analog Input	Temperature (LG-Ni1000 - 50...180° C)	°C	0.1	50	0	0.1	~	~	0	~
16	%R%TR(2)_US	TR(1)_US	Room temperature 2_US	0,270	Analog Input	Temperature (LG-Ni1000 - 50...180° C)	°F	0.1	122	32	0.1	~	~	0	~
17	%R%TR(2)	TR(2)	Room temperature 2	0,15	Analog Input	0...10V DC	°C	0.1	50	0	0.1	~	~	0	~
18	%R%TR(2)_US	TR(2)_US	Room temperature 2_US	0,271	Analog Input	0...10V DC	°F	0.1	122	32	0.1	~	~	0	~
19	%R%TR(2)	TR(2)	Room temperature 2	0,16	Analog Input	Temperature (NTC 10K)	°C	0.1	50	0	0.1	~	~	0	~
20	%R%TR(2)_US	TR(2)_US	Room temperature 2_US	0,272	Analog Input	Temperature (NTC 10K)	°F	0.1	122	32	0.1	~	~	0	~
21	%R%TR(2)	TR(2)	Room temperature 2	0,17	Analog Input	Temperature (Pt1000, EU)	°C	0.1	50	0	0.1	~	~	0	~
22	%R%TR(2)_	TR(2)_US	Room	0,273	Analog	Temperat	°F	0.1	122	32	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	US		temperature 2_US		Input	ure (Pt1000, EU)									
23	%R%'TR(2)	TR(2)	Room temperature 2	0,18	Analog Input	Temperat ure (Pt1000, NA)	°C	0.1	50	0	0.1	~	~	0	~
24	%R%'TR(2)_US	TR(2)_US	Room temperature 2_US	0,274	Analog Input	Temperat ure (Pt1000, NA)	°F	0.1	122	32	0.1	~	~	0	~
25	%R%'TOa	TOa	Outside air temperature	0,4		Temperat ure (LG-Ni1000 - 50...180° C)	°C	0.5	80	-50	0.1	~	~	0	~
26	%R%'TOa_US	TOa_US	Outside air temperature_US	0,260		Temperat ure (LG-Ni1000 - 50...180° C)	°F	0.5	176	-58	0.1	~	~	0	~
27	%R%'TOa	TOa	Outside air temperature	0,5		0...10V DC	°C	0.5	80	-50	0.1	~	~	0	~
28	%R%'TOa_US	TOa_US	Outside air temperature_US	0,261		0...10V DC	°F	0.5	176	-58	0.1	~	~	0	~
29	%R%'TOa	TOa	Outside air temperature	0,6		Temperat ure (NTC 10K)	°C	0.5	80	-50	0.1	~	~	0	~
30	%R%'TOa_US	TOa_US	Outside air temperature_US	0,262		Temperat ure (NTC 10K)	°F	0.5	176	-58	0.1	~	~	0	~
31	%R%'TOa	TOa	Outside air temperature	0,7		Temperat ure (Pt1000, EU)	°C	0.5	80	-50	0.1	~	~	0	~
32	%R%'TOa_US	TOa_US	Outside air temperature_US	0,263		Temperat ure (Pt1000, EU)	°F	0.5	176	-58	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
33	%R%'TOa	TOa	Outside air temperature	0,8		Temperature (Pt1000, NA)	°C	0.5	80	-50	0.1	~	~	0	~
34	%R%'TOa_US	TOa_US	Outside air temperature_US	0,264		Temperature (Pt1000, NA)	°F	0.5	176	-58	0.1	~	~	0	~
35	%R%'TOa	TOa	Outside air temperature	0,9		Temperature (LG-Ni1000 - 50...180° C)	°C	0.5	80	-50	0.1	~	~	0	~
36	%R%'TOa_US	TOa_US	Outside air temperature_US	0,265		Temperature (LG-Ni1000 - 50...180° C)	°F	0.5	176	-58	0.1	~	~	0	~
37	%R%'TOa	TOa	Outside air temperature	0,10		0...10V DC	°C	0.5	80	-50	0.1	~	~	0	~
38	%R%'TOa_US	TOa_US	Outside air temperature_US	0,266		0...10V DC	°F	0.5	176	-58	0.1	~	~	0	~
39	%R%'TOa	TOa	Outside air temperature	0,11		Temperature (NTC 10K)	°C	0.5	80	-50	0.1	~	~	0	~
40	%R%'TOa_US	TOa_US	Outside air temperature_US	0,267		Temperature (NTC 10K)	°F	0.5	176	-58	0.1	~	~	0	~
41	%R%'TOa	TOa	Outside air temperature	0,12		Temperature (Pt1000, EU)	°C	0.5	80	-50	0.1	~	~	0	~
42	%R%'TOa_US	TOa_US	Outside air temperature_US	0,268		Temperature (Pt1000, EU)	°F	0.5	176	-58	0.1	~	~	0	~
43	%R%'TOa	TOa	Outside air temperature	0,13		Temperature (Pt1000,	°C	0.5	80	-50	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
						NA)									
44	%R%'TOa_US	TOa_US	Outside air temperature_US	0,269		Temperature (Pt1000, NA)	°F	0.5	176	-58	0.1	~	~	0	~
45	%R%'HulRelR(1)	HulRelR(1)	Relative humidity for room 1	0,3	Analog Input	0...10V DC	%RH	1	100	0	1	~	~	0	~
46	%R%'HulRelR(2)	HulRelR(2)	Relative humidity for room 2	0,2	Analog Input	0...10V DC	%RH	1	100	0	1	~	~	0	~
47	%R%'AQualR(1)	AQualR(1)	Room air quality 1	0,48	Analog Input	0...10V DC	ppm	10	2000	0	10	~	~	0	~
48	%R%'AQualR(2)	AQualR(2)	Room air quality 2	0,49	Analog Input	0...10V DC	ppm	10	2000	0	10	~	~	0	~
49	%R%'RHvacCoo'HuCtl'PrSpHu	PrSpHu	Present serpoint for humidity	2,155	Analog Value	~	%RH	1	100	0	1	~	~	Null	70
50	%R%'RHvacCoo'DHuCtl'PrSpDHu	PrSpDHu	Present dehumidification setpoint	2,160	Analog Value	~	%RH	1	100	0	1	~	~	Null	70
51	%R%'RHvacCoo'VntCtl'PrSpVnt	PrSpVnt	Present ventilation setpoint	2,165	Analog Value	~	ppm	10	2000	0	10	~	~	Null	900
52	%R%'RHvacCoo'TCtlH'PrSpH	PrSpH	Present heating setpoint	2,171	Analog Value	~	°C	0.1	50	0	0.1	~	~	Null	22
53	%R%'RHvacCoo'TCtlH'PrSpH_US	PrSpH_US	Present heating setpoint_US	2,427	Analog Value	~	°F	0.1	122	32	0.1	~	~	Null	71.6
54	%R%'RHvacCoo'TCtlH'PrSpHCmf	PrSpHCmf	Comfort heating setpoint	2,176	Analog Value	~	°C	0.1	50	0	0.1	~	~	Null	21
55	%R%'RHvacCoo'TCtlH'PrSpHCmf_US	PrSpHCmf_US	Comfort heating setpoint_US	2,432	Analog Value	~	°F	0.1	122	32	0.1	~	~	Null	69.8
56	%R%'RHvacCoo'TCtlC'Pr	PrSpC	Present cooling setpoint	2,186	Analog Value	~	°C	0.1	50	0	0.1	~	~	Null	22

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	SpC														
57	%R%'RHvac Coo'TCtIC'Pr SpC_US	PrSpC_US	Present cooling setpoint_US	2,442	Analog Value	~	°F	0.1	122	32	0.1	~	~	Null	71.6
58	%R%'RHvac Coo'TCtIC'S pCCmf	SpCCmf	Comfort cooling setpoint	2,191	Analog Value	~	°C	0.1	50	0	0.1	~	~	Null	14
59	%R%'RHvac Coo'TCtIC'S pCCmf_US	SpCCmf_US	Comfort cooling setpoint_US	2,447	Analog Value	~	°F	0.1	122	32	0.1	~	~	Null	57.2
60	%R%'RHvac Coo'SpTRDt r'SpTR	SpTR	Room temperature setpoint	2,180	Analog Value	~	°C	0.1	50	0	0.1	~	~	Null	0
61	%R%'RHvac Coo'SpTRDt r'SpTR_US	SpTR_US	Room temperature setpoint_US	2,436	Analog Value	~	°F	0.1	122	32	0.1	~	~	Null	0
62	%R%'RHvac Coo'SpTRDt r'SpTRShft	SpTRShft	Room temperature setpoint shift	2,181	Analog Value	~	K	0.1	10	-10	0.1	~	~	Null	0
63	%R%'RHvac Coo'SpTRDt r'SpTRShft_ US	SpTRShft_U S	Room temperature setpoint shift_US	2,437	Analog Value	~	°F	0.1	50	14	0.1	~	~	Null	0
64	%R%'RHvac Coo'AQualR Col'AQualR Rs	AQualRRs	Result of room air quality	2,153	Analog Value	~	ppm	0.1	3.40E+38	-3.40E+38	0.1	~	~	0	~
65	%R%'RHvac Coo'TRCol'T RRs	TRRs	Result of room temperature	2,154	Analog Value	~	°C	0.1	3.40E+38	-3.40E+38	0.1	~	~	0	~
66	%R%'RHvac Coo'TRCol'T RRs_US	TRRs_US	Result of room temperature_U S	2,410	Analog Value	~	°F	0.1	3.40E+38	-3.40E+38	0.1	~	~	0	~
67	%R%'RHvac Coo'TCtIH'Pr SpHCmf	PrSpHCmf	Present comfort heating setpoint	2,172	Analog Value	~	°C	0.1	50	0	0.1	~	~	0	~
68	%R%'RHvac Coo'TCtIH'Pr US	PrSpHCmf_ US	Present comfort heating	2,428	Analog Value	~	°F	0.1	122	32	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	SpHCmf_US		setpoint_US												
69	%R%'RHvac Coo'TCtlH'Pr SpHPcf	PrSpHPcf	Present economy heating setpoint	2,173	Analog Value	~	°C	0.1	50	0	0.1	~	~	0	~
70	%R%'RHvac Coo'TCtlH'Pr SpHPcf_US	PrSpHPcf_US	Present economy heating setpoint_US	2,429	Analog Value	~	°F	0.1	122	32	0.1	~	~	0	~
71	%R%'RHvac Coo'TCtlH'Pr SpHEco	PrSpHEco	Present unoccupied heating setpoint	2,174	Analog Value	~	°C	0.1	50	0	0.1	~	~	0	~
72	%R%'RHvac Coo'TCtlH'Pr SpHEco_US	PrSpHEco_US	Present unoccupied heating setpoint_US	2,430	Analog Value	~	°F	0.1	122	32	0.1	~	~	0	~
73	%R%'RHvac Coo'TCtlH'Pr SpHPrt	PrSpHPrt	Present protection heating setpoint	2,175	Analog Value	~	°C	0.1	50	0	0.1	~	~	0	~
74	%R%'RHvac Coo'TCtlH'Pr SpHPrt_US	PrSpHPrt_US	Present protection heating setpoint_US	2,431	Analog Value	~	°F	0.1	122	32	0.1	~	~	0	~
75	%R%'RHvac Coo'TCtlC'Pr SpCCmf	PrSpCCmf	Present comfort cooling setpoint	2,187	Analog Value	~	°C	0.1	50	0	0.1	~	~	0	~
76	%R%'RHvac Coo'TCtlC'Pr SpCCmf_US	PrSpCCmf_US	Present comfort cooling setpoint_US	2,443	Analog Value	~	°F	0.1	122	32	0.1	~	~	0	~
77	%R%'RHvac Coo'TCtlC'Pr SpCPcf	PrSpCPcf	Present economy cooling setpoint	2,188	Analog Value	~	°C	0.1	50	0	0.1	~	~	0	~
78	%R%'RHvac Coo'TCtlC'Pr SpCPcf_US	PrSpCPcf_US	Present economy cooling setpoint_US	2,444	Analog Value	~	°F	0.1	122	32	0.1	~	~	0	~
79	%R%'RHvac Coo'TCtlC'Pr SpCEco	PrSpCEco	Present unoccupied cooling setpoint	2,189	Analog Value	~	°C	0.1	50	0	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
80	%R%'RHvac Coo'TCtlC'Pr SpCEco_US	PrSpCEco_ US	Present unoccupied cooling setpoint_US	2,445	Analog Value	~	°F	0.1	122	32	0.1	~	~	0	~
81	%R%'RHvac Coo'TCtlC'Pr SpCPrt	PrSpCPrt	Present protection cooling setpoint	2,190	Analog Value	~	°C	0.1	50	0	0.1	~	~	0	~
82	%R%'RHvac Coo'TCtlC'Pr SpCPrt_US	PrSpCPrt_U S	Present protection cooling setpoint_US	2,446	Analog Value	~	°F	0.1	122	32	0.1	~	~	0	~
83	%R%'RHvac Coo'RHuRel	RHuRel	Relative humidity for room	2,183	Analog Value	~	%RH	1	100	0	1	~	~	0	~
84	%R%'RHvac Coo'RAQual	RAQual	Room air quality	2,184	Analog Value	~	ppm	1000	5000	0	10	~	~	0	~
85	%R%'RHvac Coo'RTemp	RTemp	Room temperature	2,185	Analog Value	~	°C	0.5	50	0	0.1	~	~	0	~
86	%R%'RHvac Coo'Rtemp_ US	Rtemp_US	Room temperature_U S	2,441	Analog Value	~	°F	0.5	122	32	0.1	~	~	0	~
87	%R%'RHvac Coo'HuRelR Col'HuRelR Rs	HuRelRRs	Result of relative humidity for room	2,170	Analog Value	~	%RH	0.1	3.40E+38	-3.40E+38	0.1	~	~	0	~
88	%R%'HVAC' DmpOa'Dmp OaCReq	DmpOaCRe q	Outside air damper cooling request	2,195	Analog Value	~	%	1	100	0	1	~	~	0	~
89	%R%'HVAC' DmpOa'Dmp OaVntReq	DmpOaVntR eq	Outside air damper ventilation request	2,196	Analog Value	~	%	1	100	0	1	~	~	0	~
90	%R%'HVAC' Fan'FanVnt Req	FanVntReq	Fan ventilation request	2,197	Analog Value	~	%	1	100	0	1	~	~	0	~
91	%R%'HVAC' Ccl'CclCReq	CclCReq	Cooling coil cooling request	2,200	Analog Value	~	%	1	100	0	1	~	~	0	~
92	%R%'HVAC'	CclDhuReq	Cooling coil	2,201	Analog	~	%	1	100	0	1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	Ccl'CclDhuReq		dehumidification request		Value										
93	%R%'HVAC' Ccl'CclCReq	CclCReq	Cooling coil cooling request	2,202	Analog Value	~	%	1	100	0	1	~	~	0	~
94	%R%'HVAC' Ccl'CclDhuReq	CclDhuReq	Cooling coil dehumidification request	2,203	Analog Value	~	%	1	100	0	1	~	~	0	~
95	%R%'HVAC' HCcl'HCclCReq	HCclCReq	Heating/cooling coil cooling request	2,207	Analog Value	~	%	1	100	0	1	~	~	0	~
96	%R%'HVAC' HCcl'HCclHReq	HCclHReq	Heating/cooling coil heating request	2,208	Analog Value	~	%	1	100	0	1	~	~	0	~
97	%R%'HVAC' HCcl'HCclDhuReq	HCclDhuReq	Heating/cooling coil dehmdf.request	2,209	Analog Value	~	%	1	100	0	1	~	~	0	~
98	%R%'HVAC' HCcl'HCclCReq	HCclCReq	Heating/cooling coil cooling request	2,204	Analog Value	~	%	1	100	0	1	~	~	0	~
99	%R%'HVAC' HCcl'HCclHReq	HCclHReq	Heating/cooling coil heating request	2,205	Analog Value	~	%	1	100	0	1	~	~	0	~
100	%R%'HVAC' HCcl'HCclDhuReq	HCclDhuReq	Heating/cooling coil dehmdf.request	2,206	Analog Value	~	%	1	100	0	1	~	~	0	~
101	%R%'HVAC' Dhum'DhumDhuReq	DhumDhuReq	Dehumidifier dehumidification request	2,210	Analog Value	~	%	1	100	0	1	~	~	0	~
102	%R%'HVAC' Hcl'HclHReq	HclHReq	Heating coil heating request	2,211	Analog Value	~	%	1	100	0	1	~	~	0	~
103	%R%'HVAC' Hcl'HclHReq	HclHReq	Heating coil heating request	2,212	Analog Value	~	%	1	100	0	1	~	~	0	~
104	%R%'HVAC' Hcl'HclHReq	HclHReq	Heating coil heating request	2,213	Analog Value	~	%	1	100	0	1	~	~	0	~
105	%R%'HVAC' Hcl'HclHReq	HclHReq	Heating coil heating request	2,214	Analog Value	~	%	1	100	0	1	~	~	0	~
106	%R%'HVAC'	HclHReq	Heating coil	2,215	Analog	~	%	1	100	0	1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	Hcl'HclHReq		heating request		Value										
107	%R%'HVAC' Hcl'HclHReq	HclHReq	Heating coil heating request	2,216	Analog Value	~	%	1	100	0	1	~	~	0	~
108	%R%'HVAC' Hum'HumHuReq	HumHuReq	Humidifier humidification request	2,217	Analog Value	~	%	1	100	0	1	~	~	0	~
109	%R%'HVAC' DhumFrSD humFrSDhuReq	DhumFrSDhuReq	Dehumidifier free-standing dehmdf.req.	2,218	Analog Value	~	%	1	100	0	1	~	~	0	~
110	%R%'HVAC' HumFrSDHu mFrSDHuReq	HumFrSDHuReq	Humidifier free-standing hmdf.request	2,219	Analog Value	~	%	1	100	0	1	~	~	0	~
111	%R%'HVAC' TREff	TREff	Effective room temperature	2,220	Analog Value	~	°C	0.1	50	0	0.1	~	~	0	~
112	%R%'HVAC' TREff_US	TREff_US	Effective room temperature_US	2,476	Analog Value	~	°F	0.1	122	32	0.1	~	~	0	~
113	%R%'HVAC' TOaEff	TOaEff	Effective outside air temperature	2,221	Analog Value	~	°C	0.1	70	-70	0.1	~	~	0	~
114	%R%'HVAC' TOaEff_US	TOaEff_US	Effective outside air temperature_US	2,477	Analog Value	~	°F	0.1	158	-94	0.1	~	~	0	~
115	Infra'AppNr	AppNr	Application number	2,254	Analog Value	~	~	0.1	3.40E+38	-3.40E+38	0.1	~	~	0	~
116	%R%'RHvac Coo'HuCtl'S pHuRelRCmf	SpHuRelRCmf	Comfort humidity setpoint	2,156	Analog Value	~	%RH	5	100	0	1	~	~	40	~
117	%R%'RHvac Coo'HuCtl'S pHuRelRPcf	SpHuRelRPcf	Economy humidity setpoint	2,157	Analog Value	~	%RH	5	100	0	1	~	~	40	~
118	%R%'RHvac Coo'HuCtl'S pHuRelREco	SpHuRelREco	Unoccupied humidity setpoint	2,158	Analog Value	~	%RH	5	100	0	1	~	~	30	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
119	%R%'RHvac Coo'HuCtl'S pHuRelRPrt	SpHuRelRPrt	Protection humidity setpoint	2,159	Analog Value	~	%RH	5	100	0	1	~	~	30	~
120	%R%'RHvac Coo'DhuCtl' SpDhuRelR Cmf	SpDhuRelR Cmf	Comfort dehum. setpoint	2,250	Analog Value	~	%RH	5	100	0	1	~	~	60	~
121	%R%'RHvac Coo'DhuCtl' SpDhuRelR Pcf	SpDhuRelR Pcf	Economy dehum. setpoint	2,251	Analog Value	~	%RH	5	100	0	1	~	~	60	~
122	%R%'RHvac Coo'DhuCtl' SpDhuRelR Eco	SpDhuRelR Eco	Unoccupied dehum. setpoint	2,252	Analog Value	~	%RH	5	100	0	1	~	~	70	~
123	%R%'RHvac Coo'DhuCtl' SpDhuRelR Prt	SpDhuRelR Prt	Protection dehum. setpoint	2,253	Analog Value	~	%RH	5	100	0	1	~	~	70	~
124	%R%'RHvac Coo'VntCtl'S pAQualRCm f	SpAQualRC mf	Comfort air quality setpoint	2,166	Analog Value	~	ppm	100	2000	0	10	~	~	900	~
125	%R%'RHvac Coo'VntCtl'S pAQualRPcf	SpAQualRP cf	Economy air quality setpoint	2,167	Analog Value	~	ppm	100	2000	0	10	~	~	1100	~
126	%R%'RHvac Coo'VntCtl'S pAQualREco	SpAQualRE co	Unoccupied air quality setpoint	2,168	Analog Value	~	ppm	100	2000	0	10	~	~	1500	~
127	%R%'RHvac Coo'VntCtl'S pAQualRPrt	SpAQualRP rt	Protection air quality setpoint	2,169	Analog Value	~	ppm	100	2000	0	10	~	~	1500	~
128	%R%'RHvac Coo'TCtlH'S pHPcf	SpHPcf	Economy heating setpoint	2,177	Analog Value	~	°C	0.5	50	0	0	~	~	19	~
129	%R%'RHvac Coo'TCtlH'S pHPcf_US	SpHPcf_US	Economy heating setpoint_US	2,433	Analog Value	~	°F	0.5	122	32	0	~	~	66.2	~
130	%R%'RHvac	SpHEco	Unoccupied	2,178	Analog	~	°C	0.5	50	0	0	~	~	15	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	Coo'TCtIH'S pHEco		heating setpoint		Value										
131	%R%'RHvac Coo'TCtIH'S pHEco_US	SpHEco_US	Unoccupied heating setpoint_US	2,434	Analog Value	~	°F	0.5	122	32	0	~	~	59	~
132	%R%'RHvac Coo'TCtIH'S pHPrt	SpHPrt	Protection heating setpoint	2,179	Analog Value	~	°C	0.5	50	0	0	~	~	7	~
133	%R%'RHvac Coo'TCtIH'S pHPrt_US	SpHPrt_US	Protection heating setpoint_US	2,435	Analog Value	~	°F	0.5	122	32	0	~	~	44.6	~
134	%R%'RHvac Coo'TCtIC'S pCPcf	SpCPcf	Economy cooling setpoint	2,192	Analog Value	~	°C	0.5	50	0	0	~	~	25	~
135	%R%'RHvac Coo'TCtIC'S pCPcf_US	SpCPcf_US	Economy cooling setpoint_US	2,448	Analog Value	~	°F	0.5	122	32	0	~	~	77	~
136	%R%'RHvac Coo'TCtIC'S pCEco	SpCEco	Unoccupied cooling setpoint	2,193	Analog Value	~	°C	0.5	50	0	0	~	~	30	~
137	%R%'RHvac Coo'TCtIC'S pCEco_US	SpCEco_US	Unoccupied cooling setpoint_US	2,449	Analog Value	~	°F	0.5	122	32	0	~	~	86	~
138	%R%'RHvac Coo'TCtIC'S pCPrt	SpCPrt	Protection cooling setpoint	2,194	Analog Value	~	°C	0.5	50	0	0	~	~	50	~
139	%R%'RHvac Coo'TCtIC'S pCPrt_US	SpCPrt_US	Protection cooling setpoint_US	2,450	Analog Value	~	°F	0.5	122	32	0	~	~	122	~
140	%R%'LockH clTOaHi	LockHclTOaHi	Outdoor temp. to disable heat	2,224	Analog Value	~	°C	0.5	20	0	0.1	~	~	0	~
141	%R%'LockH clTOaHi_US	LockHclTOaHi_US	Outdoor temp. to disable heat_US	2,480	Analog Value	~	°F	0.5	68	32	0.1	~	~	0	~
142	%R%'LockH clTOaHi	LockHclTOaHi	Outdoor temp. to disable heat	2,225	Analog Value	~	°C	0.5	20	0	0.1	~	~	0	~
143	%R%'LockH clTOaHi_US	LockHclTOaHi_US	Outdoor temp. to disable	2,481	Analog Value	~	°F	0.5	68	32	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
			heat_US												
144	%R%LockHclTOaHi	LockHclTOaHi	Outdoor temp. to disable heat	2,226	Analog Value	~	°C	0.5	20	0	0.1	~	~	0	~
145	%R%LockHclTOaHi_US	LockHclTOaHi_US	Outdoor temp. to disable heat_US	2,482	Analog Value	~	°F	0.5	68	32	0.1	~	~	0	~
146	%R%LockHpuTOaLo	LockHpuTOaLo	HP compressor lockout low temp.	2,222	Analog Value	~	°C	0.5	10	-10	0.1	~	~	0	~
147	%R%LockHpuTOaLo_US	LockHpuTOaLo_US	HP compressor lockout low temp._US	2,478	Analog Value	~	°F	0.5	50	14	0.1	~	~	0	~
148	%R%LockHpuTOaLo	LockHpuTOaLo	HP compressor lockout low temp.	2,223	Analog Value	~	°C	0.5	10	-10	0.1	~	~	0	~
149	%R%LockHpuTOaLo_US	LockHpuTOaLo_US	HP compressor lockout low temp._US	2,479	Analog Value	~	°F	0.5	50	14	0.1	~	~	0	~
150	%R%TR1Val0V	TR1Val0V	X1 room temp. ref. at 0V	2,227	Analog Value	~	°C	0.5	80	-50	0.1	~	~	0	~
151	%R%TR1Val0V_US	TR1Val0V_US	X1 room temp. ref. at 10V_US	2,483	Analog Value	~	°F	0.5	176	-58	0.1	~	~	0	~
152	%R%TR1Val10V	TR1Val10V	X1 room temp. ref. at 10V	2,228	Analog Value	~	°C	0.5	80	-50	0.1	~	~	0	~
153	%R%TR1Val0V_US	TR1Val0V_US	X1 room temp. ref. at 10V_US	2,484	Analog Value	~	°F	0.5	176	-58	0.1	~	~	0	~
154	%R%TR2MsvAdj	TR2MsvAdj	X2 temp. sensor adj.	2,244	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
155	%R%TR2MsvAdj_US	TR2MsvAdj_US	X2 temp. sensor adj._US	2,500	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
156	%R%TR2MsvAdj	TR2MsvAdj	X2 temp. sensor adj.	2,245	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
157	%R%TR2MsvAdj_US	TR2MsvAdj_US	X2 temp. sensor adj._US	2,501	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
158	%R%TR2MsvAdj	TR2MsvAdj	X2 temp. sensor adj.	2,246	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
159	%R%TR2MsvAdj_US	TR2MsvAdj_US	X2 temp. sensor adj._US	2,502	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
160	%R%TR2MsvAdj	TR2MsvAdj	X2 temp. sensor adj.	2,247	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
161	%R%TR2MsvAdj_US	TR2MsvAdj_US	X2 temp. sensor adj._US	2,503	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
162	%R%TR2MsvAdj	TR2MsvAdj	X2 temp. sensor adj.	2,248	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
163	%R%TR2MsvAdj_US	TR2MsvAdj_US	X2 temp. sensor adj._US	2,504	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
164	%R%TR1MsvAdj	TR1MsvAdj	X1 temp. sensor adj.	2,239	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
165	%R%TR1MsvAdj_US	TR1MsvAdj_US	X1 temp. sensor adj._US	2,495	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
166	%R%TR1MsvAdj	TR1MsvAdj	X1 temp. sensor adj.	2,240	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
167	%R%TR1MsvAdj_US	TR1MsvAdj_US	X1 temp. sensor adj._US	2,496	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
168	%R%TR1MsvAdj	TR1MsvAdj	X1 temp. sensor adj.	2,241	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
169	%R%TR1MsvAdj_US	TR1MsvAdj_US	X1 temp. sensor adj._US	2,497	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
170	%R%TR1MsvAdj	TR1MsvAdj	X1 temp. sensor adj.	2,242	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
171	%R%TR1MsvAdj_US	TR1MsvAdj_US	X1 temp. sensor adj._US	2,498	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
172	%R%TR1MsvAdj	TR1MsvAdj	X1 temp. sensor adj.	2,243	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
173	%R%TR1MsvAdj_US	TR1MsvAdj_US	X1 temp. sensor adj._US	2,499	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
174	%R%TRBltnMsvAdj	TRBltnMsvAdj	Built-in temp. sensor adj.	2,249	Analog Value	~	K	0.5	5	-5	0.1	~	~	0	~
175	%R%TRBltnMsvAdj_US	TRBltnMsvAdj_US	Built-in temp. sensor adj._US	2,505	Analog Value	~	°F	0.5	41	23	0.1	~	~	0	~
176	%R%DiffTR	DiffTRTOaMi	Min.diff.room	2,238	Analog	~	K	0.5	20	0	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	TOaMinC	nC	temp./outs.air temp.f.cool		Value										
177	%R%'DiffTR TOaMinC_US	DiffTRTOaMi nC_US	Min.diff.room temp./outs.air temp.f.cool_US	2,494	Analog Value	~	°F	0.5	68	32	0.1	~	~	0	~
178	%R%'HDvn MaxDhu	HDvnMaxDh u	Max.deviation heating f.dehumidificati on	2,237	Analog Value	~	K	0.5	10	0	0.1	~	~	0	~
179	%R%'HDvn MaxDhu_US	HDvnMaxDh u_US	Max.deviation heating f.dehumidificati on_US	2,493	Analog Value	~	°F	0.5	50	32	0.1	~	~	0	~
180	%R%'SpTR MinCCmf	SpTRMinCC mf	Min. cooling setpoint	2,236	Analog Value	~	°C	0.5	50	0	0.1	~	~	0	~
181	%R%'SpTR MinCCmf_US	SpTRMinCC mf_US	Min. cooling setpoint_US	2,492	Analog Value	~	°F	0.5	122	32	0.1	~	~	0	~
182	%R%'SpTR MaxHCmf	SpTRMaxH Cmf	Max. heating setpoint	2,235	Analog Value	~	°C	0.5	50	0	0.1	~	~	0	~
183	%R%'SpTR MaxHCmf_US	SpTRMaxH Cmf_US	Max. heating setpoint_US	2,491	Analog Value	~	°F	0.5	122	32	0.1	~	~	0	~
184	%R%'TOaV al10V	TOaVal10V	Outside temp. ref. at 10V	2,233	Analog Value	~	°C	0.5	80	-50	0.1	~	~	0	~
185	%R%'TOaV al10V_US	TOaVal10V_ US	Outside temp. ref. at 10V_US	2,489	Analog Value	~	°F	0.5	176	-58	0.1	~	~	0	~
186	%R%'TOaV al10V	TOaVal10V	Outside temp. ref. at 10V	2,234	Analog Value	~	°C	0.5	80	-50	0.1	~	~	0	~
187	%R%'TOaV al10V_US	TOaVal10V_ US	Outside temp. ref. at 10V_US	2,490	Analog Value	~	°F	0.5	176	-58	0.1	~	~	0	~
188	%R%'TOaV al0V	TOaVal10V	Outside temp. ref. at 0V	2,231	Analog Value	~	°C	0.5	80	-50	0.1	~	~	0	~
189	%R%'TOaV al10V_US	TOaVal10V_ US	Outside temp. ref. at 10V_US	2,487	Analog Value	~	°F	0.5	176	-58	0.1	~	~	0	~
190	%R%'TOaV al0V	TOaVal10V	Outside temp. ref. at 0V	2,232	Analog Value	~	°C	0.5	80	-50	0.1	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
191	%R%'TOaVal10V_US	TOaVal10V_US	Outside temp. ref. at 10V_US	2,488	Analog Value	~	°F	0.5	176	-58	0.1	~	~	0	~
192	%R%'TR2Val10V	TR2Val10V	X2 room temp. ref. at 10V	2,230	Analog Value	~	°C	0.5	80	-50	0.1	~	~	0	~
193	%R%'TR2Val10V_US	TR2Val10V_US	X2 room temp. ref. at 10V_US	2,486	Analog Value	~	°F	0.5	176	-58	0.1	~	~	0	~
194	%R%'TR2Val0V	TR2Val10V	X2 room temp. ref. at 0V	2,229	Analog Value	~	°C	0.5	80	-50	0.1	~	~	0	~
195	%R%'TR2Val10V_US	TR2Val10V_US	X2 room temp. ref. at 10V_US	2,485	Analog Value	~	°F	0.5	176	-58	0.1	~	~	0	~
196	%R%'PrxDetBltn	PrxDetBltn	Built-in proximity detector	3,0	Binary Input	BI_NO	~	~	~	~	~	~	0=Inactive 1=Active	Inactive	~
197	%R%'PscDetBltn	PscDetBltn	Built-in presence detector	3,1	Binary Input	BI_NO	~	~	~	~	~	~	0=Inactive 1=Active	Inactive	~
198	%R%'TchDetBltn	TchDetBltn	Built-in touch detector	3,2	Binary Input	BI_NO	~	~	~	~	~	~	0=Inactive 1=Active	Inactive	~
199	%R%'CdnMon(1)	%R%'CdnMon(1)	Condensation monitor 1	3,5	Binary Input	BI_NO	~	~	~	~	~	~	0=Off 1=On	Off	~
200	%R%'CdnMon(1)	%R%'CdnMon(1)	Condensation monitor 1	3,6	Binary Input	BI_NC	~	~	~	~	~	~	0=Off 1=On	Off	~
201	%R%'CdnMon(2)	CdnMon(2)	Condensation monitor 2	3,3	Binary Input	BI_NO	~	~	~	~	~	~	0=Off 1=On	Off	~
202	%R%'CdnMon(2)	CdnMon(2)	Condensation monitor 2	3,4	Binary Input	BI_NC	~	~	~	~	~	~	0=Off 1=On	Off	~
203	%R%'UCont(1)	%R%'UCont(1)	Universal contact 1	3,9	Binary Input	BI_NO	~	~	~	~	~	~	0=Off 1=On	Off	~
204	%R%'UCont(1)	%R%'UCont(1)	Universal contact 1	3,10	Binary Input	BI_NC	~	~	~	~	~	~	0=Off 1=On	Off	~
205	%R%'UCont(2)	UCont(2)	Universal contact 2	3,7	Binary Input	BI_NO	~	~	~	~	~	~	0=Off 1=On	Off	~
206	%R%'UCont(2)	UCont(2)	Universal contact 2	3,8	Binary Input	BI_NC	~	~	~	~	~	~	0=Off 1=On	Off	~
207	%R%'PscDet(1)	%R%'PscDet(1)	Presence detector 1	3,13	Binary Input	BI_NO	~	~	~	~	~	~	0=Absent 1=Present	Absent	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
208	%R%'PscDet(1)	%R%'PscDet(1)	Presence detector 1	3,14	Binary Input	BI_NC	~	~	~	~	~	~	0=Absent 1=Present	Absent	~
209	%R%'PscDet(2)	%R%'PscDet(2)	Presence detector 2	3,11	Binary Input	BI_NO	~	~	~	~	~	~	0=Absent 1=Present	Absent	~
210	%R%'PscDet(2)	%R%'PscDet(2)	Presence detector 2	3,12	Binary Input	BI_NC	~	~	~	~	~	~	0=Absent 1=Present	Absent	~
211	%R%'OpModSwi	%R%'OpModSwi	Operating mode switch	3,15	Binary Input	BI_NO	~	~	~	~	~	~	0=Off 1=On	Off	~
212	%R%'OpModSwi	%R%'OpModSwi	Operating mode switch	3,16	Binary Input	BI_NC	~	~	~	~	~	~	0=Off 1=On	Off	~
213	%R%'OpModSwi	%R%'OpModSwi	Operating mode switch	3,17	Binary Input	BI_NO	~	~	~	~	~	~	0=Off 1=On	Off	~
214	%R%'OpModSwi	%R%'OpModSwi	Operating mode switch	3,18	Binary Input	BI_NC	~	~	~	~	~	~	0=Off 1=On	Off	~
215	%R%'ROpModDtr'TmpCmfBtn	TmpCmfBtn	Temporary comfort button	5.101	Binary Value	~	~	~	~	~	~	~	0=Inactive 1=Active	Null	Inactive
216	%R%'ROpModDtr'CmfBtn	CmfBtn	Comfort button	5.102	Binary Value	~	~	~	~	~	~	~	0=Inactive 1=Active	Null	Inactive
217	%R%'RHvacCoo'HuCtl'EnHuCtl	HuCtl'EnHuCtl	Enable humidification control	5.106	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	Null	Yes
218	%R%'RHvacCoo'DhuCtl'EnDhuCtl	EnDhuCtl	Enable dehumidification control	5.107	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	Null	Yes
219	%R%'RHvacCoo'VntCtl'EnVntCtl	EnVntCtl	Enable ventilation control	5.108	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	Null	Yes
220	%R%'RHvacCoo'TCtlH'EnHCtl	EnHCtl	Enable heating control	5.110	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	Null	Yes
221	%R%'RHvacCoo'TCtlC'EnCCtl	EnCCtl	Enable cooling control	5.116	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	Null	Yes
222	%R%'RHvacCoo'FanOp'	SpFan1Spd	Setpoint for single-speed	5.111	Binary Value	~	~	~	~	~	~	~	0=Off 1=On	Null	Off

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	SpFan1Spd		fan												
223	%R%'HVAC' DmpOa'Dmp OaEcmSta	DmpOaEcm Sta	Outside air damper economizer state	5.118	Binary Value	~	~	~	~	~	~	~	0=Inactive 1=Active	Null	Inactive
224	%R%'HVAC' Fan'Fan1Sp dMan	Fan1SpdMa n	Manual single- speed fan	5.122	Binary Value	~	~	~	~	~	~	~	0=Off 1=On	Null	Off
225	%R%'HVAC' HCcl'HpuSrc Avl	HpuSrcAvl	Heat pump source available	5.134	Binary Value	~	~	~	~	~	~	~	0=Off 1=On	Null	Off
226	%R%'HVAC' HCcl'HpuSrc Avl	HpuSrcAvl	Heat pump source available	5.128	Binary Value	~	~	~	~	~	~	~	0=Off 1=On	Null	Off
227	%R%'HVAC' DhumFrsd'D humFrsdCm dVal	DhumFrsdC mdVal	Dehumidifier free-standing command value	5.147	Binary Value	~	~	~	~	~	~	~	0=Off 1=On	Null	Off
228	%R%'HVAC' HumFrsd'Cu mFrsdCmdV al	HumFrsdCm dVal	Humidifier free- standing command value	5.149	Binary Value	~	~	~	~	~	~	~	0=Off 1=On	Null	Off
229	%R%'RGrnL f'REeiRst	REeiRst	Reset of room energy efficiency indic.	5.103	Binary Value	~	~	~	~	~	~	~	0=Inactive 1=Active	Inactive	~
230	%R%'RHvac Coo'RPscDe t	RPscDet	Room presence detection	5.104	Binary Value	~	~	~	~	~	~	~	0=Absent 1=Present	Absent	~
231	%R%'RHvac Coo'PscDet Col'PscDetR s	PscDetRs	Result of presence detector	5.105	Binary Value	~	~	~	~	~	~	~	0=Inactive 1=Active	Inactive	~
232	%R%'RHvac Coo'VntCtl'V ntSta	VntCtl'VntSt a	Ventilation state	5.109	Binary Value	~	~	~	~	~	~	~	0=Off 1=On	Off	~
233	%R%'RHvac Coo'PltMod Dtr'CoolDwn Req	CoolDwnRe q	Cool down request	5.112	Binary Value	~	~	~	~	~	~	~	0=Inactive 1=Active	Inactive	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
234	%R%'RHvac Coo'PltMod Dtr'WarmUp Req	WarmUpReq	Warm-up request	5.113	Binary Value	~	~	~	~	~	~	~	0=Inactive 1=Active	Inactive	~
235	%R%'RHvac Coo'PltMod Dtr'PrFreeC Req	PrFreeCReq	Present free cooling request	5.114	Binary Value	~	~	~	~	~	~	~	0=Inactive 1=Active	Inactive	~
236	%R%'HVAC' DmpOa'Dmp OaAvIC	DmpOaAvIC	Outside air damper available for cooling	5.119	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
237	%R%'HVAC' DmpOa'Dmp OaAvIVnt	DmpOaAvI Vnt	Outside air damper available for vent.	5.120	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
238	%R%'HVAC' Fan'FanAvI Vnt	FanAvIVnt	Outside air damper available for vent.	5.121	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
239	%R%'HVAC' Fil'FilChg	FilChg	Filter change	5.164	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
240	%R%'HVAC' Ccl'CclAvIC	CclAvIC	Cooling coil available for cooling	5.123	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
241	%R%'HVAC' Ccl'CclAvIDh u	CclAvIDhu	Cooling coil available for dehmdf.	5.124	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
242	%R%'HVAC' Ccl'CclAvIC	CclAvIC	Cooling coil available for cooling	5.125	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
243	%R%'HVAC' Ccl'CclAvIDh u	CclAvIDhu	Cooling coil available for dehmdf.	5.126	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
244	%R%'HVAC' HCcl'HpuFlt Col'HpuFltR s	HpuFltRs	Result of heat pump fault	5.133	Binary Value	~	~	~	~	~	~	~	0=Normal 1=Fault	Normal	~
245	%R%'HVAC'	HCclAvIC	Heating/cooling	5.135	Binary	~	~	~	~	~	~	~	0=No 1=Yes	No	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	HCcl'HCclAv IC		coil available for cool.		Value										
246	%R%'HVAC' HCcl'HCclAv IH	HCclAvIH	Heating/cooling coil available for heat.	5.136	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
247	%R%'HVAC' HCcl'HCclAv IDhu	HCclAvIDhu	Heating/cool.co il available for dehmdf.	5.137	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
248	%R%'HVAC' HCcl'HpuSrc Dmd	HpuSrcDmd	Heat pump source demand	5.138	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
249	%R%'HVAC' HCcl'HpuFlt Col'HpuFltR s	HpuFltRs	Result of heat pump fault	5.127	Binary Value	~	~	~	~	~	~	~	0=Normal 1=Fault	Normal	~
250	%R%'HVAC' HCcl'HCclAv IC	HCclAvIC	Heating/cooling coil available for cool.	5.129	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
251	%R%'HVAC' HCcl'HCclAv IH	HCclAvIH	Heating/cooling coil available for heat.	5.130	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
252	%R%'HVAC' HCcl'HCclAv IDhu	HCclAvIDhu	Heating/cool.co il available for dehmdf.	5.131	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
253	%R%'HVAC' HCcl'HpuSrc Dmd	HpuSrcDmd	Heat pump source demand	5.132	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
254	%R%'HVAC' Dhum'Dhum AvIDhu	DhumAvIDhu	Dehumidifier available for dehmdf.	5.139	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
255	%R%'HVAC' Hcl'HclAvIH	HclAvIH	Heating coil available for heating	5.140	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
256	%R%'HVAC' Hcl'HclAvIH	HclAvIH	Heating coil available for heating	5.141	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
257	%R%'HVAC' Hcl'HclAvIH	HclAvIH	Heating coil available for	5.142	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
			heating												
258	%R%'HVAC' Hcl'HclAvIH	HclAvIH	Heating coil available for heating	5.143	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
259	%R%'HVAC' Hcl'HclAvIH	HclAvIH	Heating coil available for heating	5.144	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
260	%R%'HVAC' Hcl'HclAvIH	HclAvIH	Heating coil available for heating	5.145	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
261	%R%'HVAC' Hum'HumAvl Hu	HumAvlHu	Humidifier available for humidification	5.146	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
262	%R%'HVAC' DhumFrzdAv IDhu	DhumFrzdAv IDhu	Dehumidifier free-stand.avail.f.de hmdf.	5.148	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
263	%R%'HVAC' HumFrzdAv mFrzdAvlHu	HumFrzdAvl Hu	Humidifier free-stand.available f.hmdf.	5.150	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
264	%R%'EnLoc kHclTOaHi	EnLockHclT OaHi	Outdoor temp. heat disable	5.156	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
265	%R%'EnLoc kHclTOaHi	EnLockHclT OaHi	Outdoor temp. heat disable	5.157	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
266	%R%'EnLoc kHclTOaHi	EnLockHclT OaHi	Outdoor temp. heat disable	5.158	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
267	%R%'EnLoc kHpuTOaLo	EnLockHpuT OaLo	HP compressor lockout on low temp.	5.154	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
268	%R%'EnLoc kHpuTOaLo	EnLockHpuT OaLo	HP compressor lockout on low temp.	5.155	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
269	%R%'RvrVlv Actv	RvrVlvActv	Reversing valve energized during	5.162	Binary Value	~	~	~	~	~	~	~	0=Cooling 1=Heating	Cooling	~
270	%R%'RvrVlv Actv	RvrVlvActv	Reversing valve energized during	5.163	Binary Value	~	~	~	~	~	~	~	0=Cooling 1=Heating	Cooling	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
271	%R%'EnRPs cDet	EnRPscDet	Room presence detector	5.161	Binary Value	~	~	~	~	~	~	~	0=Closed 1=Open	Closed	~
272	%R%'EnFreeC	EnFreeC	Free cooling	5.160	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
273	%R%'EnHuHOnly	EnHuHOnly	Humidity control in heating only	5.159	Binary Value	~	~	~	~	~	~	~	0=No 1=Yes	No	~
274	%R%'HclEI1StPos	HclEI1StPos	Heating coil electric pos.first stage	4,12	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
275	%R%'HclEI1StPos	HclEI1StPos	Heating coil electric pos.first stage	4,13	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
276	%R%'HclEIPos	HclEIPos	Heating coil electric position	4,0	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
277	%R%'HclEIPos	HclEIPos	Heating coil electric position	4,1	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
278	%R%'DhumCmd	DhumCmd	Dehumidifier command	4,2	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
279	%R%'HpuRvrVlv	HpuRvrVlv	Heat pump reversing valve	4,3	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Inactive 1=Active	Inactive	Inactive
280	%R%'HpuCmd2St	HpuCmd2St	Heat pump command second stage	4,4	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
281	%R%'HpuCmd1St	HpuCmd1St	Heat pump command first stage	4,5	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
282	%R%'HpuCmd	HpuCmd	Heat pump command	4,6	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
283	%R%'CclDx2StPos	CclDx2StPos	Cooling coil DX evap.pos.second stage	4,7	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
284	%R%'CclDx1StPos	CclDx1StPos	Cooling coil DX evap.pos.second stage	4,8	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
285	%R%'CclDxPos	CclDxPos	Cooling coil DX evaporator	4,9	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
			position												
286	%R%'HclEI2StPos	HclEI2StPos	Heating coil electric pos.second stage	4,14	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
287	%R%'HclEI2StPos	HclEI2StPos	Heating coil electric pos.second stage	4,15	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
288	%R%'Fan1Spd	Fan1Spd	Single-speed fan	4,10	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
289	%R%'DmpOaCmd	DmpOaCmd	Outside air damper command	4,11	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
290	%R%'HclEI3StPos	HclEI3StPos	Heating coil electric pos.third stage	4,26	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
291	%R%'HclGasCmd1St	HclGasCmd1St	Heating coil gas command first stage	4,24	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
292	%R%'HclGasCmd1St	HclGasCmd1St	Heating coil gas command first stage	4,25	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
293	%R%'HclGasCmd	HclGasCmd	Heating coil gas command	4,16	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
294	%R%'HclGasCmd	HclGasCmd	Heating coil gas command	4,17	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
295	%R%'HumFrsdCmd	HumFrsdCmd	Humidifier free-standing command	4,18	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
296	%R%'DhumFrsdCmd	DhumFrsdCmd	Dehumidifier free-standing command	4,19	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
297	%R%'HumCmd	HumCmd	Humidifier command	4,20	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
298	%R%'HclGasCmd3St	HclGasCmd3St	Heating coil gas command third stage	4,21	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
299	%R%'HclGasCmd2St	HclGasCmd2St	Heating coil gas command second stage	4,22	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
300	%R%'HclGasCmd2St	HclGasCmd2St	Heating coil gas command second stage	4,23	Binary Output	BO_Relay_NO	~	~	~	~	~	~	0=Off 1=On	Off	Off
301	%R%'RGrnLfREei	REei	Energy efficiency indication room	19,77	Multistate Value	~	~	~	~	~	~	5	1=Undefined 2=Poor 3=Satisfactory 4=Good 5=Excellent	Null	Undefined
302	%R%'ROpModDtr'ROpMod	ROpMod	Room operating mode	19,75	Multistate Value	~	~	~	~	~	~	4	1=Protection 2=Unoccupied 3=Economy 4=Comfort	Null	Comfort
303	%R%'ROpModDtr'OccMod	OccMod	Occupancy mode	19,76	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Absent 3=Present	Null	Present
304	%R%'CenOpMod' CenOpModCmdv	CenOpModCmdv	Central operating mode command value	19,73	Multistate Value	~	~	~	~	~	~	4	1=Protection 2=Unoccupied 3=Economy 4=Comfort	Null	Comfort
305	%R%'RHvacCoo'PscModDtr'HvacPscMod	HvacPscMod	HVAC presence mode	19,83	Multistate Value	~	~	~	~	~	~	4	1=None 2=Consider present 3=Consider absent 4=Cons.present & absent	Null	None
306	%R%'RHvacCoo'PltModDtr'PltOpMod	PltOpMod	Plant operating mode	19,84	Multistate Value	~	~	~	~	~	~	17	1=Off 2=Protection 3=Economy 4=Pre-Comfort 5=Comfort 6=Warm-up 7=Cool down 8=Room low temp.prot. 9=Cond.overflow prot. 10=Free	Null	Off

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
													cooling 11=Night cooling 12=Ventilation 13=Equip. temp. prot 14=Air vol. flow off 15=Not used 16=Not used 17=Not used		
307	%R%'RHvacCoo'PltModDtr'NxROpMod	NxROpMod	Next room operating mode	19,85	Multistate Value	~	~	~	~	~	~	4	1=Protection 2=Unoccupied 3=Economy 4=Comfort	Null	Comfort
308	%R%'RHvacCoo'PrOpModRsn	PrOpModRsn	Present operating mode and reason	19,86	Multistate Value	~	~	~	~	~	~	4	1=Protection 2=Unoccupied 3=Economy 4=Comfort	Null	Protection
309	%R%'HVAC'DmpOa'DmpOaDevMod	DmpOaDevMod	Outside air damper device mode	19,88	Multistate Value	~	~	~	~	~	~	4	1=Off 2=Control mode 3=Fully open 4=Maximum allowed	Null	Off
310	%R%'HVAC'Fan'FanDevMod	FanDevMod	Fan device mode	19,89	Multistate Value	~	~	~	~	~	~	4	1=Off 2=Control mode 3=Maximum speed 4=Manual speed	Null	Off
311	%R%'HVAC'Ccl'CclDevMod	CclDevMod	Cooling coil device mode	19,90	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
312	%R%'HVAC'Ccl'CclDevMod	CclDevMod	Cooling coil device mode	19,91	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
313	%R%'HVAC'HCcl'HCclDevMod	HCclDevMod	Heating/cooling coil device	19,94	Multistate Value	~	~	~	~	~	~	4	1=Off 2=Control	Null	Off

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	vMod		mode										mode 3=Fully open, heating 4=Fully open, cooling		
314	%R%'HVAC' HCcl'HCclDevMod	HCclDevMod	Heating/cooling coil device mode	19,92	Multistate Value	~	~	~	~	~	~	4	1=Off 2=Control mode 3=Fully open, heating 4=Fully open, cooling	Null	Off
315	%R%'HVAC' Dhum'DhumDevMod	DhumDevMod	Dehumidifier device mode	19,96	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
316	%R%'HVAC' Hcl'HclDevMod	HclDevMod	Heating coil device mode	19,97	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
317	%R%'HVAC' Hcl'HclDevMod	HclDevMod	Heating coil device mode	19,98	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
318	%R%'HVAC' Hcl'HclDevMod	HclDevMod	Heating coil device mode	19,99	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
319	%R%'HVAC' Hcl'HclDevMod	HclDevMod	Heating coil device mode	19.100	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
320	%R%'HVAC' Hcl'HclDevMod	HclDevMod	Heating coil device mode	19.101	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
321	%R%'HVAC' Hcl'HclDevMod	HclDevMod	Heating coil device mode	19.102	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
322	%R%'HVAC' Hum'HumDe	HumDevMod	Humidifier device mode	19.103	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully	Null	Off

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	vMod												open		
323	%R%'HVAC'DhumFrSD'HumFrSDDevMod	DhumFrSDDevMod	Dehumidifier free-standing device mode	19.104	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
324	%R%'HVAC'HumFrSD'HumFrSDDevMod	HumFrSDDevMod	Humidifier free-standing device mode	19.105	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Control mode 3=Fully open	Null	Off
325	%R%'HVAC'PrPltOpMod	PrPltOpMod	Present plant operating mode	19.106	Multistate Value	~	~	~	~	~	~	17	1=Off 2=Protection 3=Economy 4=Pre-Comfort 5=Comfort 6=Warm-up 7=Cool down 8=Room low temp.prot. 9=Cond.overflow prot. 10=Free cooling 11=Night cooling 12=Ventilation 13=Equip.tem p.prot 14=Air vol.flow off 15=Not used 16=Not used 17=Not used	Null	Off
326	%R%'CenOpMod'CenOssc'OsscSta	OsscSta	OSSC state (optimum start stop control)	19,74	Multistate Value	~	~	~	~	~	~	8	1=Setback 2=Early start 3=Late start 4=Early occupancy 5=Economy 6=Comfort 7=Stop 8=Lact occupancy	Setbank	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
327	%R%'RHvac Coo'GrnLf'R HvacEei	RHvacEei	Room energy efficiency indication HVAC	19,78	Multistate Value	~	~	~	~	~	~	5	1=Undefined 2=Poor 3=Satisfactor y 4=Good 5=Excellent	Undefined	~
328	%R%'RHvac Coo'HuDhuS taDtr'HuDhu Sta	HuDhuSta	Humidification/dehumidification state	19,79	Multistate Value	~	~	~	~	~	~	3	1=Neither 2=Humidify 3=Dehumidify	Neither	~
329	%R%'RHvac Coo'HCStaD tr'HCSta	HCSta	Heating/cooling state	19,80	Multistate Value	~	~	~	~	~	~	3	1=Neither 2=Heating 3=Cooling	Neither	~
330	%R%'RHvac Coo'RAQual lnd	RAQualInd	Room air quality indication	19,87	Multistate Value	~	~	~	~	~	~	4	1=Undefined 2=Poor 3=Okay 4=Good	Undefined	~
331	%R%'HVAC' HCcl'HpuSta	HpuSta	Heat pump state	19,95	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Heating 3=Cooling	Off	~
332	%R%'HVAC' HCcl'HpuSta	HpuSta	Heat pump state	19,93	Multistate Value	~	~	~	~	~	~	3	1=Off 2=Heating 3=Cooling	Off	~
333	%R%'HVAC' HCDevOut'H clDevTyp	HclDevTyp	Heating coil device type	19.114	Multistate Value	~	~	~	~	~	~	7	1=None 2=Electric 1- stage 3=Electric 2- stage 4=Electric 3- stage 5=Gas 1-stage 6=Gas 2- stage 7=Gas 3-stag	None	~
334	%R%'HVAC' HCDevOut'H CclDevTyp	HCclDevTyp	Heating/cooling coil device type	19.115	Multistate Value	~	~	~	~	~	~	3	1=None 2=Heat pump 1-stage 3=Heat pump 2-stage	None	~
335	%R%'HVAC' HCDevOut'C clDevTyp	CclDevTyp	Cooling coil device type	19.116	Multistate Value	~	~	~	~	~	~	3	1=None 2=DX 1-stage 3=DX 2-stage	None	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
336	%R%'HVAC' HCDDevOut'H CStaOut	HCStaOut	Heating/cooling state output	19.113	Multistate Value	~	~	~	~	~	~	3	1=Neither 2=Heating 3=Cooling	Neither	~
337	%R%'HVAC' HCDmd	HCDmd	Heating/cooling state output	19.107	Multistate Value	~	~	~	~	~	~	3	1=Neither 2=Heating 3=Cooling	Neither	~
338	%R%'SenEv' lMod	SenEvlMod	Sensor evaluation mode	19.108	Multistate Value	~	~	~	~	~	~	2	1=Built-in & external 2=External	Built-in & external	~
339	%R%'OffPrt' Cnf	OffPrtCnf	Off/protection configuration	19.109	Multistate Value	~	~	~	~	~	~	2	1=Off 2=Protection	Off	~
340	%R%'RHvac' Coo'OphHC Dtr'OphH	OphH	Operating hours heating	48,41	Positive Integer Value	~	min	~	4294967295	0	1	~	~	0	~
341	%R%'RHvac' Coo'OphHC Dtr'OphC	OphC	Operating hours cooling	48,42	Positive Integer Value	~	min	~	4294967295	0	1	~	~	0	~
342	%R%'HVAC' Fil'OphFil	OphFil	Operating hours filter	48,43	Positive Integer Value	~	min	~	4294967295	0	1	~	~	0	~
343	%R%'Dhumf' sTiOffMin	DhumfsTiOffMin	Dehum. (no fan) min. OFF time	48,40	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
344	%R%'Dhumf' sTiOnMin	DhumfsTiOnMin	Dehum. (no fan) min. ON time	48,39	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
345	%R%'Humfs' TiOffMin	HumfsTiOffMin	Humidify (no fan) min. OFF time	48,38	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
346	%R%'Humfs' TiOnMin	HumfsTiOnMin	Humidify (no fan) min. ON time	48,37	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
347	%R%'Dhum' TiOffMin	DhumTiOffMin	Dehum. (fan) min. OFF time	48,36	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
348	%R%'Dhum' TiOnMin	DhumTiOnMin	Dehum. (fan) min. ON time	48,35	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
349	%R%'HumTiOffMin	HumTiOffMin	Humidifier (fan) min. OFF time	48,34	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
350	%R%'HumTiOnMin	HumTiOnMin	Humidifier (fan) min. ON time	48,33	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
351	%R%'HclTiOffMin	HclTiOffMin	Heating min. OFF time	48,27	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
352	%R%'HclTiOffMin	HclTiOffMin	Heating min. OFF time	48,28	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
353	%R%'HclTiOffMin	HclTiOffMin	Heating min. OFF time	48,29	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
354	%R%'HclTiOffMin	HclTiOffMin	Heating min. OFF time	48,30	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
355	%R%'HclTiOffMin	HclTiOffMin	Heating min. OFF time	48,31	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
356	%R%'HclTiOffMin	HclTiOffMin	Heating min. OFF time	48,32	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
357	%R%'HclTiOnMin	HclTiOnMin	Heating min. ON time	48,21	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
358	%R%'HclTiOnMin	HclTiOnMin	Heating min. ON time	48,22	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
359	%R%'HclTiOnMin	HclTiOnMin	Heating min. ON time	48,23	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
360	%R%'HclTiOnMin	HclTiOnMin	Heating min. ON time	48,24	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
361	%R%'HclTiOnMin	HclTiOnMin	Heating min. ON time	48,25	Positive Integer	~	ms	~	900000	180000	1000	~	~	180000	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
					Value										
362	%R%'HclTiOnMin	HclTiOnMin	Heating min. ON time	48,26	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
363	%R%'HpuTiOffMin	HpuTiOffMin	HP compressor min. OFF time	48,18	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
364	%R%'HpuTiOffMin	HpuTiOffMin	HP compressor min. OFF time	48,20	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
365	%R%'HpuTiOnMin	HpuTiOnMin	HP compressor min. ON time	48,17	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
366	%R%'HpuTiOnMin	HpuTiOnMin	HP compressor min. ON time	48,19	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
367	%R%'CclDxTiOnMin	CclDxTiOnMin	Cooling min. ON time	48,13	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
368	%R%'CclDxTiOnMin	CclDxTiOnMin	Cooling min. ON time	48,15	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
369	%R%'CclDxTiOffMin	CclDxTiOffMin	Cooling min. OFF time	48,14	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
370	%R%'CclDxTiOffMin	CclDxTiOffMin	Cooling min. OFF time	48,16	Positive Integer Value	~	ms	~	900000	180000	1000	~	~	180000	~
371	%R%'Fan1SpdTiofMin	Fan1SpdTiofMin	Fan min. OFF time	48,12	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
372	%R%'Fan1SpdTionMin	Fan1SpdTionMin	Fan min. OFF time	48,11	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
373	%R%'DmpOaTiOffMin	DmpOaTiOffMin	Damper min. OFF time	48,8	Positive Integer Value	~	ms	~	3600000	0	1000	~	~	0	~
374	%R%'DmpOaTiOn	DmpOaTiOn	Damper min.	48,7	Positive	~	ms	~	3600000	0	1000	~	~	0	~

Obj. No.	Obj. Name	Obj. Name Base	Description	Obj. Identifier	Data Type	Sig. Type	Unit	Resolution	Max. Value	Min. Value	Change of Value	State No.	State Text	Present Value	Default Command
	aTiOnMin	Min	ON time		Integer Value										
375	%R%'ChovrDlyHC	ChovrDlyHC	Changeover delay for heating/cooling	48,3	Positive Integer Value	~	ms	~	600000	30000	1000	~	~	30000	~
376	%R%'ChovrDlyHC	ChovrDlyHC	Changeover delay for heating/cooling	48,4	Positive Integer Value	~	ms	~	600000	30000	1000	~	~	30000	~
377	%R%'HclEIFanOvrn	HclEIFanOvrn	Electric heating coil fan overrun	48,0	Positive Integer Value	~	ms	~	600000	0	1000	~	~	0	~
378	%R%'HclEIFanOvrn	HclEIFanOvrn	Electric heating coil fan overrun	48,1	Positive Integer Value	~	ms	~	600000	0	1000	~	~	0	~
379	%R%'HclEIFanOvrn	HclEIFanOvrn	Electric heating coil fan overrun	48,2	Positive Integer Value	~	ms	~	600000	0	1000	~	~	0	~
380	%R%'FilChgIvl	FilChgIvl	Filter change interval	48,44	Positive Integer Value	~	h	~	8760	1	1	~	~	1	~



BACnet settings are accessible from the thermostat. See the [User guide](#) for BACnet HMI access.

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