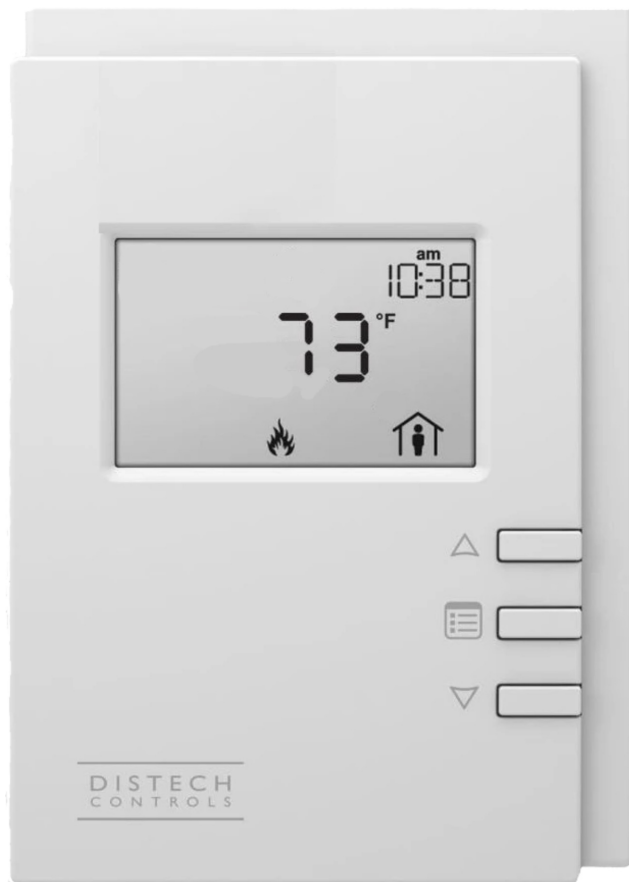


UC-3

User Guide



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WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

Disconnect power supply before making wiring connections or working on this equipment. Follow all applicable safety procedures to prevent accidental power up. Failure to do so can result in injury or death from electrical shock or moving parts and may cause equipment damage.

Improper control adjustments and manual mode control can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before making adjustments.

A Note About Custom Designs

AbsolutAire often builds equipment with special features as requested by the customer. This manual only covers standard features and does not include any changes made for special feature requests by the customer.



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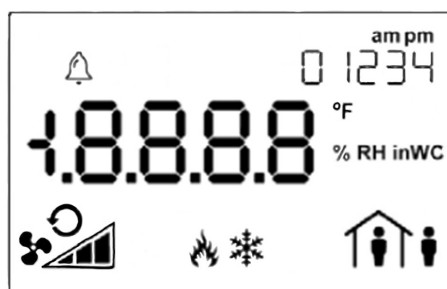
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Introduction

The Smart-View User Interface (UI) for the UC-3 Control System displays the information necessary to operate and diagnose the Heating and Ventilating Unit.

This is connected to the controller via a CAT-5E cable with a maximum length of 600 feet.



HMI Screen Information

At the top left corner of the display there is a bell symbol. This is the system alarm indicator. If an alarm is present in the unit this indicator will blink. If no alarm is present this indicator will not be visible. At the top center of the display is the indicator for indoor temperature. If an outdoor temperature is being displayed the thermometer will be outside of the house. At the top right of the display is the time in 12 hour format during normal display.

When navigating the menu, the menu title will be displayed here. Across the center of the display is the data with the units of measure. The system is capable of displaying up to 4 decimal places. At the bottom left is the fan status. In the bottom center is the mode of operation and at the bottom right is the occupancy status.

Three buttons are available for operation (see cover page). The center button allows you to access the menu and scroll through the menu items. The up/down buttons are used to change values.

Operation

The system has a scrolling display which displays the current Space Temperature, as well as Building Pressure and Relative Humidity (if equipped). The menu is separated into sub-menus for ease of use, and only the options the unit is equipped with will be displayed. When navigating the menu blinking items are set points that can be changed, while non-blinking items are statuses which can be viewed only.



To turn the unit on or off, press the “up arrow” to access the Fan Command. Use the “up arrow” to select the desired option, then press the center button “menu” to return to the main display.

To change set points such as temperature or building pressure, press the “menu” button until you see “SET POINTS” in the top right of the screen. Press the “up arrow” to enter this sub-menu. Your first choice will be “mode”. Use the up arrow to select “heat or vent” (unless the unit has air conditioning, in which case the choices will be “heat/cool/air”). When you have made your choice, press the “menu” button to move to the next menu item, which will be the Occupied Heat Set Point. Again, use the “up/down” arrow buttons to make your entry and press “menu” when finished. Continue scrolling through the Set Points sub-menu until all of your desired settings are completed. When scrolling the menu and you see the option “BACK” in the top right, pressing the “up arrow” will take you to the previous menu.

Scrolling through the “STATUS” sub-menu will allow you to view the status of all of the unit sensors, damper positions, and burner operation. This is useful for checking unit operation or outdoor conditions.

The “ALARMS” menu will only be displayed if there is a system alarm, as indicated by the blinking alarm bell on the display. When an alarm is present, scrolling through this sub-menu will allow you to view the alarm(s) in “plain English” enumerated text. This is useful for diagnosing the unit in the event of a problem.



Sensor Alarm Display



The “SCHEDULE” will be described later. This is a 7-day occupancy schedule used for the purpose of temperature or operation changes during unoccupied times.

The “CONFIG” menu is where the primary operating set points for the unit are set such as the minimum and maximum allowable discharge temperatures, as well as other items. Again, use the “menu” button to scroll through the sub-menu and the “up/down” buttons to edit your selection.

Schedule

The programmable 7-day occupancy schedule has the ability to set occupied and unoccupied times for a standard week, as well as five individually programmable special events which will override the weekly schedule.

The special event programming monitors the current year, as well as the month being programmed, to prevent invalid days from being programmed as a special event (for example April 31st or February 30th). The system also monitors for leap years so February can have either 28 or 29 days programmed.

Occupancy status is indicated by the occupancy icon in the lower right corner of the HMI screen. A steady icon indicates the system is following the standard 7-day schedule, while a blinking icon indicates the system is following a day programmed as a special event.

To program the 7-day schedule, press the “menu” button until “SCHEDULE” appears in the top right of the display. Press the “up arrow” to enter the schedule.

The first section is the “WEEKLY SCHEDULE”. Press the “up arrow” to enter the weekly schedule. Select the “DAY OF WEEK” to be programmed, with Monday being Day 1. Press “menu” to navigate to “OCC HOUR”. Use the up/down arrows to select the occupied hour, in 24-hour format, and press “menu” to confirm. Press “menu” again to navigate to “OCC MINUTE” and use the up/down arrows to select the occupied minute and press “menu” to confirm. Continue to set the “UNOC HOUR” and “UNOC MINUTE” for this day, then select the next day to program. Leaving the hours and minutes set to “0” for a day will leave that day un-programmed and the system will assume an occupied status for that day.

When finished with the WEEKLY SCHEDULE select “BACK” to return to the menu and program SPECIAL EVENTS if desired.



Special events are used to override the weekly schedule and either keep a facility occupied for an event such as inventory or an important meeting, or to keep a facility unoccupied on a holiday when the building will remain empty.

To program special events, press the “menu” button until “SCHEDULE” appears in the top right of the display. Press the “up arrow” to enter the schedule.

Press “menu” until “SPECIAL EVENTS” appears in the top right of the display. Press the “up arrow” to enter the special event programming menu.

Special events are programmed based on the month and day of the month you wish to program as a special event. Leaving a month and day set to “0” will leave that event un-programmed.

The first option will be the “EVENT NUMBER”. Select the event desired event number (1 - 5) and press “menu” to navigate to “EVENT MONTH”. Select the desired month (1 - 12) and press “menu” to confirm. Press “menu” to navigate to “EVENT DAY”. Select the desired day of the month (1 - 28/29/30/31 as allowed) and press “menu” to confirm.

Press “menu” to navigate to “OCC HOUR”. Select the occupied hour/minutes as well as the unoccupied hours/minutes in the same fashion as programming the weekly schedule.

When finished, either select the next event number to be programmed, or select “BACK” to return to the previous menu.

To remove a special event, set the event month and day to “0”.

Once the schedule is set, the unit will follow the occupied and unoccupied temperature set points for each day as well as any special events.



Menu Tree

Scrolling Display

Space_Temp – Current space temperature at the User Interface (or remote space temperature sensor if equipped).

Bldg_Pressure – Current building pressure (only displayed if the unit has Building Pressure as an option).

Quick Access

Fan_Command – This is accessed by pressing the “up arrow” from the main screen and is used to turn the unit ON and OFF.

Set Points

Mode – This is the mode of operation. Select “Heat” or “Vent” as desired (if the unit has cooling installed the choices will be “Heat/Cool/Air”)

Occ_Heat – Occupied Heat Set Point.

Unocc_Heat – Unoccupied Heat Set Point (only available if the unit has scheduling as an option).

Occ_Cool – Occupied Cooling Set Point (only available if the unit has cooling as an option).

Unocc_Cool – Unoccupied Cooling Set Point (only available if the unit has scheduling and cooling as options).

BP_Set_Point – Building Pressure Set Point (only available if the unit has building pressure control as an option).

Econ_Override – Economizer Override function to override automatic building pressure control of dampers or the supply fan VFD (only available if the unit has building pressure control as an option). Set to the override percent you desire, or select “null” by pressing the “up” and “down” arrow buttons at the same time for automatic control.

Man_Econ_Pct – Manual Economizer Percent for damper or supply fan VFD control (only available if the unit has manual speed or economizer control as an option).



Man_Econ_Speed – Manual Economizer setting for “two speed” or “two position” economizer operation (only available if the unit has two position or two speed as an option). Choices are “LOW” and “HIGH”. These values are set in the “CONFIG” menu.

Burner_Reset – Burner reset command for use during a burner lockout alarm. This is an “on/_on_” toggle selectable via the “up arrow” button.

Status

Space_Temp – Current space temperature at the User Interface (or remote space temperature sensor if equipped).

OA_Temp – Current outside air temperature.

RA_Temp – Current return air temperature (only if the unit has return air as an option).

DA_Temp – Current discharge air temperature.

Cool_Coil_Temp - Current cooling coil exit temperature (only if the unit is equipped with cooling).

Bldg_Pressure – Current building pressure (only available if the unit has building pressure as an option).

Econ_Command – Current economizer command issued to the dampers or supply fan VFD (only available if the unit has an economizer option).

Heat_Command – Current command (0% - 100%) issued to the burner for heat.

Cool_Command - Current command (0% - 100%) issued to the cooling system (only if the unit is equipped with cooling).

Active_Stages - Current number of active cooling stages (only if the unit is equipped with cooling).



Alarms (alarm menu is only visible if an alarm is present)

Dirty_Filter – Dirty filter indication (only available if the unit has dirty filter monitoring as an option).

Low_Temp_Alarm – Low temperature lockout alarm. This is an indication that the unit was discharging air colder than the “Low Temp Alarm” setting in the “Config” menu for greater than “Low Temp Time” minutes. Check the burner for proper operation.

Space_Sensor – Space sensor alarm status. Enumerated “no-fault/open/short”. Check sensor wiring.

OA_Sensor_Alarm – Outside sensor alarm status. Enumerated “no-fault/open/short”. Check sensor wiring.

RA_Sensor_Alarm – Return sensor alarm status. Enumerated “no-fault/open/short”. Check sensor wiring (only available if unit is not 100% outside air).

DA_Sensor_Alarm – Discharge sensor alarm status. Enumerated “no-fault/open/short”. Check sensor wiring.

Burner_Lockout – Burner lockout alarm status. Indicates the burner failed to light when requested. Enumerated “normal/lockout”.

Damper_Feedback – OA/RA damper position feedback error. Indicates the processor is not receiving a valid position signal. Check damper wiring.

Motor_Not_Resp – Motor not responding alarm status. This indicates the unit was enabled and the supply fan motor failed to start within two minutes. Check VFD or overload (as available), OA damper limit switch and wiring, and power.

Burner_Not_Respond - Indicates the burner was commanded to light and the controller did not receive confirmation.

Burner_Watchdog - Indicates the burner did not reach the requested discharge temperature within 5 minutes. Possible problem with gas pressure or gas valves.

Point_Override - Indicates a hardware point was overridden by the building management system. As all control points are available to the network, overrides are unnecessary. Remove the override to clear the alarm.



Schedule (only visible if the unit has scheduling)

Weekly Schedule

Day of Week – Schedule day to be programmed.

Occ_Hour – Occupied hour to be programmed. This is the hour (in 24 hour format) that the unit will assume occupied status.

Occ_Minute – Occupied minute to be programmed. This is the minute of the hour the unit will assume occupied status.

Unoc_Hour – Unoccupied hour to be programmed. This is the hour (in 24 hour format) that the unit will assume unoccupied status.

Unoc_Minute – Unoccupied minute to be programmed. This is the minute of the hour the unit will assume unoccupied status.

Special Events

Event_Number - The schedule supports up to five special events. This is the event number to be programmed

Event_Month - Month of the year the special event is in.

Event_Day - Day of the month the special event is on.

Occ_Hour – Occupied hour for the special event. This is the hour (in 24 hour format) that the unit will assume occupied status.

Occ_Minute – Occupied minute for the special event. This is the minute of the hour the unit will assume occupied status.

Unoc_Hour – Unoccupied hour for the special event. This is the hour (in 24 hour format) that the unit will assume unoccupied status.

Unoc_Minute – Unoccupied minute for the special event. This is the minute of the hour the unit will assume unoccupied status.



Config

Heat_Lockout – Heating mild weather stat setting. When the outside or mixed air temperature is above this setting the burner will be automatically disabled (only available if the unit has mild weather stat as an option).

Cool_Lockout – Cooling mild weather stat setting. When the outside or mixed air temperature is below this setting the cooling will be automatically disabled (only available if the unit has cooling as an option).

Low_Temp_Alarm – If the unit discharges air below this temperature set point for “Low Temp Time” minutes it will shut down and close the isolation dampers (Only available if LTL is available).

Low_Temp_Time – The time delay (in minutes) for the “Low Temp Alarm” (Only available if LTL is available).

Control_Type – Determines the type of control the unit will follow. Enumerated “space/discharge”.

Min_Discharge – The units minimum allowable discharge temperature.

Max_Discharge – The units maximum allowable discharge temperature.

Cycle_Occupied – Determines if the unit will cycle on/off to space temperature when in occupied status. Enumerated “yes/no”.

Cycle_Unoccupied – Determines if the unit will cycle on/off to space temperature when in unoccupied status. Enumerated “yes/no”.

Low_Econ_Limit – Economizer low limit. Used to limit the minimum position of dampers or the minimum VFD speed. Also used with two speed/position economizer.

High_Econ_Limit – Economizer high limit. Used to limit the maximum position of dampers or the maximum VFD speed. Also used with two speed/position economizer.

Advanced Menu (Press and hold “menu” button for 5 seconds to enter)

Date Time

Year – Set the real time clock year.

Date – Set the real time clock date.

Time – Set the real time clock time.



Network Integration

The controller in this unit can easily be integrated into a BACnet MS/TP Building Management System. The controller will automatically detect the baud rate of the network it is connected to after a power cycle, and will automatically begin communications.

The MAC Address is set via the dip switches on the front of the controller. When shipped, each unit will have a factory default MAC address with multiple units for the same project having incremented MAC addresses. The dip switches are numbered 1 through 8, with 1 being the LSB. The numbering is standard binary format (switches 1 and 3 ON equals an address of 5).

The Network Instance Number (device instance) is automatically configured based on the MAC Address setting. The network instance number will always be $3640 + (\text{MAC Address})$. For example, if the MAC address is set to 25 the network instance number would be 364025. In the event of a duplicate instance number on the network, simply change the MAC address to change the instance number.

The following page has a complete listing of the BACnet points with their descriptions.



| Point | Name | Type | Description | Writable | Units |
|----------------------|---------------------------------|-------------------|--|----------|-------------------------------|
| Hardware Input 1 | Discharge Temperature | RTD & Thermistors | Discharge Temperature Sensor (DO NOT WRITE TO THIS POINT) | N | Unit: degrees-Fahrenheit |
| Hardware Input 2 | Outside Temperature | RTD & Thermistors | Outside Temperature Sensor (DO NOT WRITE TO THIS POINT) | N | Unit: degrees-Fahrenheit |
| Hardware Input 3 | Return Temperature | RTD & Thermistors | Return Temperature Sensor (DO NOT WRITE TO THIS POINT) | N | Unit: degrees-Fahrenheit |
| Hardware Input 4 | RemoteSpaceTemp | RTD & Thermistors | Remote Space Temperature Sensor (DO NOT WRITE TO THIS POINT) | N | Unit: degrees-Fahrenheit |
| Hardware Input 5 | Cooling Coil Exit Sensor | RTD & Thermistors | Cooling Coil Temperature Sensor (DO NOT WRITE TO THIS POINT) | N | Unit: degrees-Fahrenheit |
| Hardware Input 6 | Dirty Filter | Digital | Dirty Filter Switch (DO NOT WRITE TO THIS POINT) | N | Boolean (TRUE;FALSE) |
| Hardware Input 7 | Unused_7 | Disconnected | DO NOT WRITE TO THIS POINT | N | N/A |
| Hardware Input 8 | Fan On | Digital | Fan On Contact (DO NOT WRITE TO THIS POINT) | N | Boolean (On;Off) |
| Hardware Input 9 | Burner On | Digital | Burner On Contact (DO NOT WRITE TO THIS POINT) | N | Boolean (On;Off) |
| Hardware Input 10 | Burner Lockout | Digital | Burner Lockout Contact (DO NOT WRITE TO THIS POINT) | N | Boolean (Lockout;Normal) |
| Hardware Input 11 | Damper Feedback | Linear | Damper Feedback Position (DO NOT WRITE TO THIS POINT) | N | Unit: percent |
| Hardware Input 12 | Building Pressure | Linear | Building Pressure Transmitter (DO NOT WRITE TO THIS POINT) | N | Unit: inches-of-water |
| Hardware Output 1 | Unit Enable | Digital | Unit Enable - Open Damper (DO NOT WRITE TO THIS POINT) | N | Boolean (Enable;Off) |
| Hardware Output 2 | Cooling Stage 3 | Digital | Cooling Enable Relay Stage 3 (DO NOT WRITE TO THIS POINT) | N | Boolean (On;Off) |
| Hardware Output 3 | Enable Burner | Digital | Burner Enable Output (DO NOT WRITE TO THIS POINT) | N | Boolean (Enable;Off) |
| Hardware Output 4 | Common Alarm | Digital | Common Alarm Output (DO NOT WRITE TO THIS POINT) | N | Boolean (Alarm;Normal) |
| Hardware Output 5 | Burner Reset | Digital | Burner Reset Output (DO NOT WRITE TO THIS POINT) | N | Boolean (Reset;Normal) |
| Hardware Output 6 | Cooling_Stage_4 | Digital | Cooling Enable Relay Stage 4 (DO NOT WRITE TO THIS POINT) | N | Boolean (On;Off) |
| Hardware Output 7 | Cooling_Stage_1 | Digital | Cooling Enable Stage 1 (DO NOT WRITE TO THIS POINT) | N | Boolean (On;Off) |
| Hardware Output 8 | Cooling Stage 2 | Digital | Cooling Enable Stage 2 (DO NOT WRITE TO THIS POINT) | N | Boolean (On;Off) |
| Hardware Output 9 | VFD Command | Analog 0 - 10 V | Burner Command Signal (DO NOT WRITE TO THIS POINT) | N | Unit: percent |
| Hardware Output 10 | AnalogCoolingOutput | Analog 0 - 10 V | OA/RA Damper Command (DO NOT WRITE TO THIS POINT) | N | Unit: percent |
| Hardware Output 11 | OA/RA Dampers | Analog 0 - 10 V | VFD Command (DO NOT WRITE TO THIS POINT) | N | Unit: percent |
| Hardware Output 12 | Burner Command | Analog 0 - 10 V | Burner Command (DO NOT WRITE TO THIS POINT) | N | Unit: percent |
| Analog Value 4 | ActiveCoolingStages | Analog Value | Current Active Cooling Stage Count | N | N/A |
| Analog Value 5 | Cooling Coil Temperature Sensor | Analog Value | Current Cooling Coil Exit Temperature | N | Unit: degrees-Fahrenheit |
| Analog Value 51 | SpaceTemperature | Analog Value | Current Space Temperature | N | Unit: degrees-Fahrenheit |
| Analog Value 52 | OutsideTemperature | Analog Value | Current Outside Temperature | N | Unit: degrees-Fahrenheit |
| Analog Value 53 | ReturnTemperature | Analog Value | Current Return Temperature | N | Unit: degrees-Fahrenheit |
| Analog Value 54 | DischargeTemperature | Analog Value | Current Discharge Temperature | N | Unit: degrees-Fahrenheit |
| Analog Value 55 | BuildingPressure | Analog Value | Current Building Pressure | N | Unit: inches-of-water |
| Analog Value 56 | EconomizerCommand | Analog Value | Current Economizer Command | N | Unit: percent |
| Analog Value 57 | HeatCommand | Analog Value | Current Heat Command | N | Unit: percent |
| Analog Value 58 | Cooling Command | Analog Value | Current Cooling Command Percent | N | Unit: percent |
| Analog Value 102 | network_OccHeatSetPoint | Analog Value | Occupied Heat Set Point [55 - 90 Fahrenheit] | Y | Unit: degrees-Fahrenheit |
| Analog Value 103 | network_FanCommand | Analog Value | Unit Fan Command [0-Off/1-On/2-Auto] [USE THIS POINT TO COMMAND THE UNIT ON AND OFF] | Y | N/A |
| Analog Value 104 | network_UnoccHeatSetPoint | Analog Value | Unoccupied Heat Set Point [55 - 90 Fahrenheit] | Y | Unit: degrees-Fahrenheit |
| Analog Value 105 | network_OccCoolSetPoint | Analog Value | Occupied Cool Set Point [55 - 90 Fahrenheit] | Y | Unit: degrees-Fahrenheit |
| Analog Value 106 | network_UnoccCoolSetPoint | Analog Value | Unoccupied Cool Set Point [55 - 90 Fahrenheit] | Y | Unit: degrees-Fahrenheit |
| Analog Value 107 | network_BuildingPressSetPoint | Analog Value | Building Pressure Set Point [-0.1 - 0.1 in/wc] | Y | Unit: inches-of-water |
| Analog Value 108 | network_EconomizerOverride | Analog Value | Economizer Override Command [0% - 100% / '255' for auto] | Y | Unit: percent |
| Analog Value 109 | network_ManualEconPercent | Analog Value | Manual Economizer Command [0% - 100% / not available with Building Pressure Option] | Y | Unit: percent |
| Analog Value 110 | network_TwoSpeedEcon | Analog Value | Two Speed Economizer Command [0-Low/1-High] | Y | N/A |
| Analog Value 111 | network_HeatCoolMode | Analog Value | Heat Cool Mode [0-Air/1-Heat/2-Cool] (only available with cooling) | Y | N/A |
| Analog Value 112 | network_HeatVentMode | Analog Value | Heat Vent Mode [0-Vent/1-Heat] (not available with cooling option) | Y | N/A |
| Analog Value 113 | network_HeatLockout | Analog Value | Heat Lockout Set Point [default 65 Fahrenheit] | Y | Unit: degrees-Fahrenheit |
| Analog Value 114 | network_CoolLockout | Analog Value | Cooling Lockout Set Point [default 75 Fahrenheit] | Y | Unit: degrees-Fahrenheit |
| Analog Value 115 | network_LowTempLimit | Analog Value | Low Temp Alarm Set Point [default 40 Fahrenheit] | Y | Unit: degrees-Fahrenheit |
| Analog Value 116 | network_LowTempTime | Analog Value | Low Temp Alarm Delay Time [default 5 minutes] | Y | Unit: minutes |
| Analog Value 118 | network_MinimumDischarge | Analog Value | Minimum Discharge Temp [default 55 Fahrenheit] | Y | Unit: degrees-Fahrenheit |
| Analog Value 119 | network_MaximumDischarge | Analog Value | Maximum Discharge Temp [default 90 Fahrenheit] | Y | Unit: degrees-Fahrenheit |
| Analog Value 122 | network_LowEconomizer | Analog Value | Low Economizer Set Point [default 0%] | Y | Unit: percent |
| Analog Value 123 | network_HighEconomizer | Analog Value | High Economizer Set Point [default 100%] | Y | Unit: percent |
| Analog Value 131 | network_BurnerReset | Analog Value | Burner Reset Command [ON_ ON_Toggle] | Y | N/A |
| Analog Value 132 | network_SpaceTemperature | Analog Value | Network Space Temperature [overrides local space temperature - use '255' for automatic unit control] | Y | Unit: degrees-Fahrenheit |
| Analog Value 133 | network_BuildingPressure | Analog Value | Network Building Pressure [overrides local building pressure - use '255' for automatic unit control] | Y | Unit: inches-of-water |
| Analog Value 134 | network_Occupancy | Analog Value | Network Occupancy Command [overrides schedule occupancy - use '255' for automatic unit control] | Y | 0 = Occupied / 1 = Unoccupied |
| Binary Value 16 | CoolingStage_1 | Binary Value | Cooling Status Stage 1 | N | Boolean (On;Off) |
| Binary Value 17 | CoolingStage_2 | Binary Value | Cooling Status Stage 2 | N | Boolean (On;Off) |
| Binary Value 18 | CoolingStage_3 | Binary Value | Cooling Status Stage 3 | N | Boolean (On;Off) |
| Binary Value 19 | CoolingStage_4 | Binary Value | Cooling Status Stage 4 | N | Boolean (On;Off) |
| Binary Value 21 | Fan Running Status | Binary Value | Unit Fan Status | N | Boolean (On;Off) |
| Binary Value 22 | Burner Operating Status | Binary Value | Unit Burner Status | N | Boolean (On;Off) |
| Binary Value 51 | network_ControlType | Binary Value | Unit Control Type [0 = Discharge / 1 = Space] | Y | Boolean (Space;Discharge) |
| Binary Value 52 | network_CycleOccupied | Binary Value | Cycle To Space Temp when Occupied [0 = No / 1 = Yes] | Y | Boolean (YES;NO) |
| Binary Value 53 | network_CycleUnoccupied | Binary Value | Cycle to Space Temp when Unoccupied [0 = No / 1 = Yes] | Y | Boolean (YES;NO) |
| Binary Value 54 | HardwareOutput_1_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 55 | HardwareOutput_2_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 56 | HardwareOutput_3_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 57 | HardwareOutput_4_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 58 | HardwareOutput_5_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 59 | HardwareOutput_6_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 60 | HardwareOutput_7_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 61 | HardwareOutput_8_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 62 | HardwareOutput_9_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 63 | HardwareOutput_10_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 64 | HardwareOutput_11_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Binary Value 65 | HardwareOutput_12_Override | Binary Value | Hardware Point Override Alarm | N | Boolean (Alarm;Normal) |
| Multi State Value 31 | DirtyFilterAlarm | Multi State Value | Dirty Filter Alarm [MSV Enumerated] | N | Enum: Filters |
| Multi State Value 32 | Low_TempAlarm | Multi State Value | Low Temp Alarm [MSV Enumerated] | N | Enum: Alarm / Normal |
| Multi State Value 33 | DischargeSensorAlarm | Multi State Value | Discharge Sensor Alarm [MSV Enumerated] | N | Enum: SensorReliability |
| Multi State Value 34 | SpaceSensorAlarm | Multi State Value | Space Sensor Alarm [MSV Enumerated] | N | Enum: SensorReliability |
| Multi State Value 35 | OutsideSensorAlarm | Multi State Value | Outside Sensor Alarm [MSV Enumerated] | N | Enum: SensorReliability |
| Multi State Value 36 | ReturnSensorAlarm | Multi State Value | Return Sensor Alarm [MSV Enumerated] | N | Enum: SensorReliability |
| Multi State Value 37 | BurnerLockoutAlarm | Multi State Value | Burner Lockout Alarm [MSV Enumerated] | N | Enum: Alarm / Normal |
| Multi State Value 38 | DamperFeedbackAlarm | Multi State Value | Damper Feedback Alarm [MSV Enumerated] | N | Enum: SensorReliability |
| Multi State Value 39 | MotorNotRespondingAlarm | Multi State Value | Motor Not Responding Alarm [MSV Enumerated] | N | Enum: Alarm / Normal |
| Multi State Value 40 | BurnerNotRespondingAlarm | Multi State Value | Burner Not Responding Alarm [MSV Enumerated] | N | Enum: Alarm / Normal |
| Multi State Value 41 | CoolingCoilExitSensorAlarm | Multi State Value | Cooling Coil Sensor Alarm [MSV Enumerated] | N | Enum: SensorReliability |



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