Stratus BACnet Points Guide

Software Version 1.3.3



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1. ANALOG VALUES

Table 1: Stratus Analog Values

Stratus Analog Values							
Parameter	**Object**	**Description**	**Units**	**R/W**	**Min**	**Max**	**Notes**
Mode Based Controlled Temperature	1	This is the current temperature for the controlled point. For example, if the application is controlling the Space Temperature, this will be the Space Temperature.	°F	RO	NA	NA	
Supply Air Temperature	2	This is the functional Supply Air temperature.	°F	RO	NA	NA	
Supply Air Dewpoint	3	This is the functional Supply Air dew point.	%	RO	NA	NA	
Outdoor Air Temperature	4	This is the functional Outdoor Air temperature.	°F	RO	NA	NA	
Outdoor Air Relative Humidity	5	This is the functional Outdoor Air Relative Humidity.	%	RO	NA	NA	
Outdoor Air Wetbulb	6	This is the functional Outdoor Air wet-bulb temperature.	°F	RO	NA	NA	
Outdoor Air Dewpoint	7	This is the functional Outdoor Air dew point.	°F	RO	NA	NA	
Return Air Temperature	8	This is the functional Return Air temperature.	°F	RO	NA	NA	
Return Air Relative Humidity	9	This is the functional Return Air relative humidity.	%	RO	NA	NA	
Mixed Air Temperature	10	This is the functional Mixed Air temperature.	°F	RO	NA	NA	
Mixed Air Relative Humidity	11	This is the functional Mixed Air relative humidity.	%	RO	NA	NA	
Space Temperature	12	This is the functional Space Temperature. This may be an average of multiple sensors.	°F	RO	NA	NA	
Space Relative Humidity	13	This is the functional Space Relative Humidity. This may be an average of multiple sensors.	%	RO	NA	NA	
Commanded OA Damper Position	14	This is the position the Outdoor Air damper should be in.	%	RO	NA	NA	
OA Damper Position	15	This is the current Outdoor Air damper position.	%	RO	NA	NA	
Supply Fan Speed	16	This is the current Supply Fan Speed as a percentage from the minimum speed to the maximum speed. See associated Binary Value for the fan running status.	%	RO	NA	NA	
Return Fan Speed	17	This is the current Return Fan Speed as a percentage from the minimum speed to the maximum speed. See associated Binary Value for the fan running status.	%	RO	NA	NA	

Stratus Analog Values (Continued)							
Parameter	Object	Description	Units	R/W	Min	Max	Notes
Exhaust Fan Speed	18	This is the current Exhaust Fan Speed as a percentage from the minimum speed to the maximum speed. See the associated Binary Value for the fan running status.	%	RO	NA	NA	
Duct Static Pressure Active Setpoint	19	This is the Duct Static Pressure Control Target.	"WC	RO	NA	NA	
Duct Static Pressure	20	This is the current Duct Static Pressure.	"WC	RO	NA	NA	
Building Pressure Active Setpoint	21	This is the Building Pressure Control Target.	"WC	RO	NA	NA	
Building Pressure	22	This is the current Building Pressure.	"WC	RO	NA	NA	
Heating Stages Active	23	This is the total number of active Heat Stages, including modulating and fixed stages.		RO	NA	NA	
Heating Modulation Percent	24	This is the Heat Modulation percent.	%	RO	NA	NA	
Preheat Stages Active	25	This is the total number of active Preheat Stages, including modulating and fixed stages.		RO	NA	NA	
Preheat Modulation Percent	26	This is the Preheat Modulation percent.	%	RO	NA	NA	
Refrigeration Circuits Active	27	This is the number of Refrigeration Circuits currently active.		RO	NA	NA	
Refrigeration Circuit A Modulation	28	This is the overall percent of operation for the circuit.	%	RO	NA	NA	
Refrigeration Circuit B Modulation	29	This is the overall percent of operation for the circuit.	%	RO	NA	NA	
Refrigeration Circuit C Modulation	30	This is the overall percent of operation for the circuit.	%	RO	NA	NA	Reserved for future use; only two circuits are currently supported by the unit.
Refrigeration Circuit D Modulation	31	This is the overall percent of operation for the circuit.	%	RO	NA	NA	Reserved for future use; only two circuits are currently supported by the unit.

Stratus Analog Values (Continued)							
Parameter	**Object**	**Description**	**Units**	**R/W**	**Min**	**Max**	**Notes**
Refrigeration Circuit E Modulation	32	This is the overall percent of operation for the circuit.	%	RO	NA	NA	Reserved for future use; only two circuits are currently supported by the unit.
Refrigeration Circuit F Modulation	33	This is the overall percent of operation for the circuit.	%	RO	NA	NA	Reserved for future use; only two circuits are currently supported by the unit.
Condenser Fan Bank 1 Modulation	34	This is the Condenser Fan Bank 1 modulation as a percentage from minimum to maximum speed. See the associated Binary Value for the fan running status.	%	RO	NA	NA	
Condenser Fan Bank 2 Modulation	35	This is the Condenser Fan Bank 2 modulation as a percentage from minimum to maximum speed. See the associated Binary Value for the fan running status.	%	RO	NA	NA	
Condenser Fan Bank 3 Modulation	36	This is the Condenser Fan Bank 3 modulation as a percentage from minimum to maximum speed. See the associated Binary Value for the fan running status.	%	RO	NA	NA	Reserved for future use; only two circuits and condenser banks are currently supported by the unit.
Condenser Fan Bank 4 Modulation	37	This is the Condenser Fan Bank 4 modulation as a percentage from minimum to maximum speed. See the associated Binary Value for the fan running status.	%	RO	NA	NA	Reserved for future use; only two circuits and condenser banks are currently supported by the unit.
Condenser Fan Bank 5 Modulation	38	This is the Condenser Fan Bank 5 modulation as a percentage from minimum to maximum speed. See the associated Binary Value for the fan running status.	%	RO	NA	NA	Reserved for future use; only two circuits and condenser banks are currently supported by the unit.
Condenser Fan Bank 6 Modulation	39	This is the Condenser Fan Bank 6 modulation as a percentage from minimum to maximum speed. See the associated Binary Value for the fan running status.	%	RO	NA	NA	Reserved for future use; only two circuits and condenser banks are currently supported by the unit.

Stratus Analog Values (Continued)							
Parameter	**Object**	**Description**	**Units**	**R/W**	**Min**	**Max**	**Notes**
Reheat Position	40	This is the Reheat Position, which is the same for all operating circuits having reheat. This may vary during a flush if circuits do not flush simultaneously.	%	RO	NA	NA	
Occupied Cooling Active Setpoint	41	This is the active setpoint that may be used to trigger cooling operations when the unit is occupied and represents the temperature to which the unit will control while in cooling.	°F	RO	NA	NA	
Occupied Heating Active Setpoint	42	This is the active setpoint that may be used to trigger heating operations when the unit is occupied and represents the temperature to which the unit will control while in heating.	°F	RO	NA	NA	
Unoccupied Cooling Active Setpoint	43	This is the active setpoint that may be used to trigger cooling operations when the unit is unoccupied and represents the temperature the unit will strive to drive below to exit the unoccupied operation.	°F	RO	NA	NA	
Unoccupied Heating Active Setpoint	44	This is the active setpoint that may be used to trigger heating operations when the unit is unoccupied and represents the temperature the unit will strive to drive above to exit the unoccupied operation.	°F	RO	NA	NA	
Active Supply Air Temperature Setpoint	45	This is the Supply Air Temperature setpoint the unit is trying to maintain.	°F	RO	NA	NA	
Measured Outdoor Airflow	46	This is the measured Outdoor airflow.	CFM	RO	NA	NA	
Measured Supply Airflow	47	This is the measured Supply airflow.	CFM	RO	NA	NA	
Measured Return Airflow	48	This is the measured Return airflow.	CFM	RO	NA	NA	
Measured Exhaust Airflow	49	This is the measured Exhaust airflow.	CFM	RO	NA	NA	
Indoor CO_2	50	This will be either Space CO_2 or Return CO_2; if both are available, this will be the Space CO_2.	PPM	RO	NA	NA	
Supply Air Setpoint Override	10003	This is the Supply Air setpoint when enabled by the value.	°F	R/W	30°F	140°F	A value below 32°F will disable the override.

Stratus Analog Values (Continued)							
Parameter	Object	Description	Units	R/W	Min	Max	Notes
Occupied Heating Setpoint[2]	10004	This is the Occupied Space Heating setpoint.	°F	R/W	0°F	109°F	This setpoint is shared with the corresponding setpoint in the Unit Manager Interface. Changes in either location are reflected in both locations.
Occupied Cooling Setpoint[2]	10005	This is the Occupied Space Cooling setpoint.	°F	R/W	1°F	110°F	This setpoint is shared with the corresponding setpoint in the Unit Manager Interface. Changes in either location are reflected in both locations.
Unoccupied Heating Setpoint[2]	10006	This is the Unoccupied Space Heating setpoint.	°F	R/W	35°F	109°F	This setpoint is shared with the corresponding setpoint in the Unit Manager Interface. Changes in either location are reflected in both locations.
Unoccupied Cooling Setpoint[2]	10007	This is the Unoccupied Space Cooling setpoint.	°F	R/W	36°F	110°F	This setpoint is shared with the corresponding setpoint in the Unit Manager Interface. Changes in either location are reflected in both locations.
OA Damper Minimum Position[2]	10008	This is the Outdoor Air damper minimum position during occupied operation.	%	R/W	0%	100%	This setpoint is shared with the corresponding setpoint in the Unit Manager Interface. Changes in either location are reflected in both locations.
IAQ CO_2 Setpoint	10009	This is the desired CO_2 level for IAQ operation.	PPM	R/W	0	3000	This setpoint is shared with the corresponding setpoint in the Unit Manager Interface. Changes in either location are reflected in both locations.

Note: R/W indicates READ/WRITE. RO indicates read-only.

1. A value less than 40°F will disable the override. This point must be written at least every five minutes, or it will be assumed invalid, and the current control mode will take over writing the SATsp.
2. This setpoint is shared with the corresponding setpoint in the Unit Manager Interface. Changes in one location will be reflected in the other.

2. BINARY VALUES

Table 2: Stratus Binary Inputs

Stratus Binary Values						
Index	Name	Description	False	True	R/W	Notes
3	Supply Fan Enable	This is the Fan Run status.	DISABLED	RUNNING	RO	
4	Return Fan Enable	This is the Fan Run status.	DISABLED	RUNNING	RO	
5	Exhaust Fan Enable	This is the Fan Run status.	DISABLED	RUNNING	RO	
6	Economizer Enable	This indicates whether the OA damper is operating in economizer control.	DISABLED	ENABLED	RO	
7	Auxiliary Heat Enable	This indicates that Auxiliary Heat is active.	DISABLED	ENABLED	RO	
8	Emergency Heat Enable	This indicates that Emergency Heat is active.	DISABLED	ENABLED	RO	
9	Supply Fan Proof of Airflow	This indicates that the Supply Fan is moving air.	FALSE	TRUE	RO	
16	Occupied		UNOCCUPIED	OCCUPIED	RO	
17	Dirty Filter	A true reading indicates that the filter needs replacement.	FALSE	TRUE	RO	
18	Supply Air Temperature Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
19	Supply Air Humidity Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
20	Outdoor Air Temperature Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
21	Outdoor Air Humidity Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
22	Return Air Temperature Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
23	Return Air Humidity Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
24	Mixed Air Temperature Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
25	Mixed Air Humidity Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
26	Space Temperature Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
27	Space Humidity Sensor Status	This indicates that a faulty sensor has been detected.	FAILED	GOOD	RO	
28	OA Cooling Lockout	This indicates that the ambient temperature is too cold to allow active cooling to operate.	FALSE	TRUE	RO	
29	OA Heating Lockout	This indicates that the ambient temperature is too hot to allow active heating to operate.	FALSE	TRUE	RO	

Stratus Binary Values (Continued)						
Index	Name	Description	False	True	R/W	Notes
30	Low Supply Air Temperature Fault	This indicates the Supply Air Temperature has dropped below the low-temperature threshold, causing the unit to shut down to protect the internal environment.	FALSE	TRUE	RO	
31	High Supply Air Temperature Fault	This indicates the Supply Air Temperature has exceeded the high-temperature threshold, causing the unit to shut down to protect the internal environment.	FALSE	TRUE	RO	
32	Circuit 1 Fault	This indicates a general fault that prevents the circuit from operating.	FALSE	TRUE	RO	
33	Circuit 2 Fault	This indicates a general fault that prevents the circuit from operating.	FALSE	TRUE	RO	
36	A2L Airstream Alarm	This indicates that an A2L leak has been detected and will trigger certain mitigation operations.	FALSE	TRUE	RO	This is a fail-safe input where True represents normal operation and False represents a fault condition.
37	A2L Airstream Alarm	This indicates that an A2L leak has been detected and will trigger certain mitigation operations.	FALSE	TRUE	RO	This is a fail-safe input where True represents normal operation and False represents a fault condition.
38	Fire Alarm	This is the status of a configured Fire Alarm input.	FALSE	TRUE	RO	This is a fail-safe input where True represents normal operation and False represents a fault condition.
39	Unit Smoke Detector	This is the status of a configured Smoke Detector input.	FALSE	TRUE	RO	This is a fail-safe input where True represents normal operation and False represents a fault condition.

Stratus Binary Values (Continued)						
Index	**Name**	**Description**	**False**	**True**	**R/W**	**Notes**
40	Remote Shutdown	This is the status of a configured Remote Shutdown input.	FALSE	TRUE	RO	This is a fail-safe input where True represents normal operation and False represents a fault condition.
41	Power Input Phase Status	The Input Power Phase Sequence is L1→L2→L3.	REVERSED	TRUE	RO	
42	Power Input Voltage Status	This indicates that the input power voltage is incorrect on one or more phases.	FALSE	TRUE	RO	This is equivalent to Phase Brownout (PBO).
43	Unit Cannot Run Alarm	This indicates a non-specific block to unit operation.	FALSE	TRUE	RO	
44	Mechanical Cooling Alarm	This indicates that something is blocking the mechanical cooling from functioning.	FALSE	TRUE	RO	
45	Mechanical Heating Alarm	This indicates that something is blocking the mechanical heating from functioning.	FALSE	TRUE	RO	
46	Title 24 Alarm A	Fault A Fault Detection and Diagnostics	FALSE	TRUE	RO	
47	Title 24 Alarm B	Fault B Fault Detection and Diagnostics	FALSE	TRUE	RO	
48	Title 24 Alarm C	Fault C Fault Detection and Diagnostics	FALSE	TRUE	RO	
49	Title 24 Alarm D	Fault D Fault Detection and Diagnostics	FALSE	TRUE	RO	
50	Title 24 Alarm E	Fault E Fault Detection and Diagnostics	FALSE	TRUE	RO	
51	Refrigeration Injection Active	Refrigerant injection is a function of cold climate heat pump operation; this is a status for that operation.	FALSE	TRUE	RO	
52	Defrost Active	This indicates that a defrost cycle is in operation on at least one circuit.	FALSE	TRUE	RO	
10002	Disabled Economizer Operations	This can be used to disable economizer operation if configured.	ENABLED	DISABLED	RO	This command uses inverted logic. By default, the economizer is enabled when it is configured. Setting this value to True disables economizer operation.

3. MULTISTATE VALUES

Table 3: Multistate Values

Stratus Multistate Values					
Index	**Name**	**Description**	**State List**	**R/W**	**Notes**
1	Application Sequence	This is the current application sequence in operation.	• External Supply Air Control • OA Control • Reserved • Return Temperature Control Standard • Space Temperature Control Precision • Space Temperature Control Standard • VAV Control	RO	
2	HVAC Unit Operating Mode	This is the current HVAC Unit mode of operation.	• Cool • Dehum • Heat • Off • Vent	RO	
3	Occupancy	This is the current occupancy status.	• Force Occupied • Forced Unoccupied • Occupied • Override Occupied • Remote Input Occupied • Unoccupied	RO	
10001	Force Occupancy	This parameter can be used to force the unit's occupancy state. Changes made through the UI or Workstation interfaces are reflected in this BACnet parameter.	• Auto • Force Occupied • Force Unoccupied	RW	

4. SCHEDULES

Table 4: Stratus Schedules

Stratus Schedules				
Object Type	**Index**	**Name**	**Description**	**Writeable**
Schedule	2	Occupied Schedule	This schedule will control the occupied state of the unit.	RW
Binary Input	1	Schedule Occupied	This point determines when the unit is commanded to operate in Occupied mode. Schedule2 writes to this point.	RO

5. REVISION HISTORY

Stratus BACnet Points Guide Change Log	
Revision and Date	**Change**
Rev. A, November 05, 2026	Initial Release

AAON Controls Support:

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www.aaon.com/aaon-controls-technical-support

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Monday through Friday, 7:00 AM to 5:00 PM Central Time

Before calling Technical Support, have the model and serial number of the unit available.

For replacement parts, contact your local AAON Representative.

Are you an AAON Rep? Visit My AAON to open new support tickets, communicate directly with our support teams, and track your support progress in one place.

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