



UbiquiSTAT

Commercial BACnet Controller

Firmware Versions 1.04.4 and 1.05.0



This guide covers firmware versions 1.04.4 and 1.05.0. Verify your firmware version by pressing the ABOUT icon on the main screen. If your firmware version is other than 1.04.4 or 1.05.0, contact Technical Support at 800.288.9383, ext. 2 to obtain the correct guide.

Description

The BACnet Explorer is an advanced configuration tool built into the UbiquiSTAT line of commercial thermostats that allows browsing and editing of most of the available settings in the UbiquiSTAT. Many of the objects are not available through the other user interface screens. The available configuration screens vary depending on the Model of UbiquiSTAT.

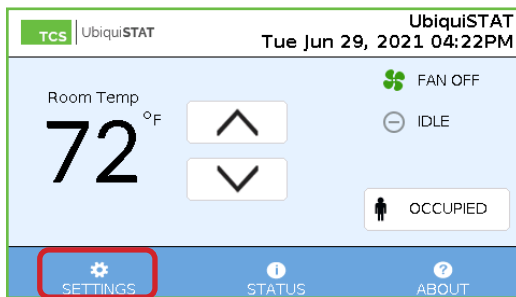
Each Explorer screen shows a single property of a BACnet object. These same object properties can also be viewed over the network with third-party BACnet network tools.

This BACnet Explorer Guide provides a brief summary of each BACnet object screen and includes a handy reference to the screen location in order to quickly navigate via the screen selection buttons on the UbiquiSTAT.

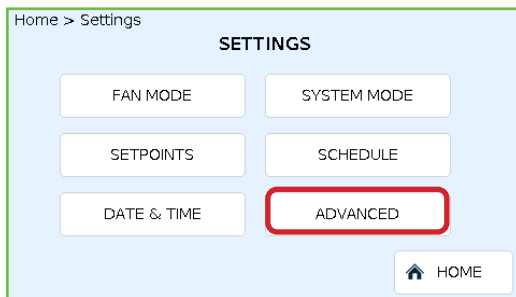
Objects that can be changed have an “Edit” button in the top left corner of the screen. Pressing the Edit button brings up an Edit screen appropriate for the property data type. The Edit screen contains a Load Default button, that when touched, loads the default value into the editor (but does not save the value). If the BACnet object is commandable and its present value is currently being commanded from the network, then the value field will include the text, “Network Override.”

Accessing the Internal BACnet Explorer

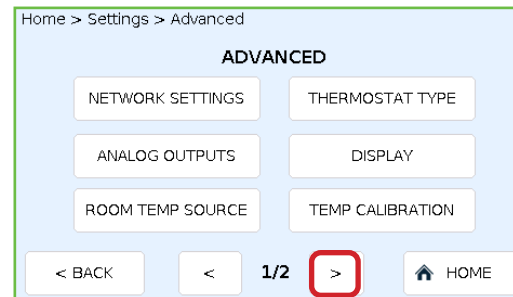
1. On the main screen of the UbiquiSTAT, press on the SETTINGS icon.



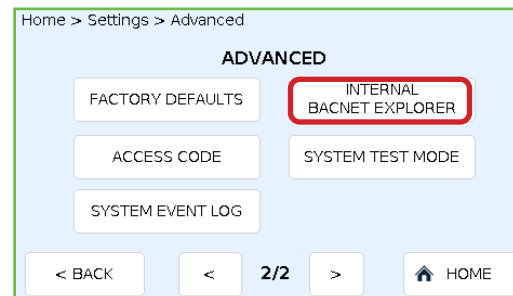
2. On the SETTINGS screen, press on the ADVANCED button.



3. On the ADVANCED screen (1/2), press on the > button.



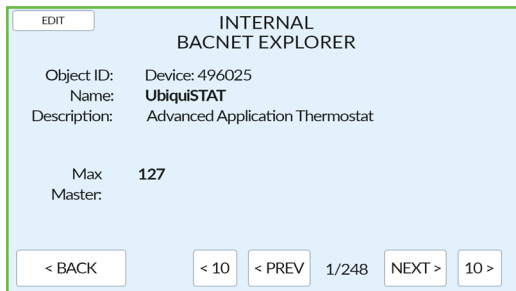
4. On the next ADVANCED screen (2/2), press on the INTERNAL BACNET EXPLORER button.



Navigating the Internal BACnet Explorer

The following navigation tools and information allow efficient browsing:

- **Object ID:** This is shown at the top of each object's screen. This is used to locate the object when accessing it via the network.
- **Object Index:** Located between the <Prev and Next> buttons, the object index displays the current object's position relative to the total number of objects.
- **Edit Button:** When visible, allows editing object settings in the applicable screen.
- **<Prev/Next> Buttons:** Advances forward/backward one object at a time. Navigation wraps in both directions.
- **<10/10> Buttons:** Advances forward/backward 10 objects at a time. Navigation wraps in both directions.
- **Back Button:** Exits out of the Internal BACnet Explorer back to the Advanced (2/2) screen.



Limitations

The Internal BACnet Explorer has the following limitations:

- Only the present value property of objects are shown (or editable), with the exception of the device object, which presents the Max Master MS/TP communication property. Properties such as relay minimum on/off times and polarity are not accessible.
- Only properties that are part of the controller programming (stored in non-volatile memory) are editable. This excludes any objects that are commandable (or may be overridden) via the network.

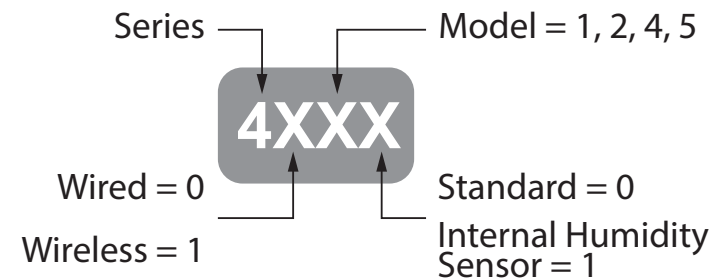
Model Number Definitions – A Key to Understanding UbiquiSTAT Series Model Versions

TCS offers 16 different UbiquiSTAT versions based on four Models: the US4010, US4020, US4040, and US4050 (refer to the [UbiquiSTAT Product Data](#) sheet for more information on the specific features of each Model).

Each UbiquiSTAT series is represented in the documentation by the following color icons:



Each Model in the series is available in several versions which can include wireless capability and an on-board dehumidification sensor. These versions are identified in the color icons following the code below:



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The table below defines each of the columns in the guide.

<p>Object ID</p>	<p>The BACnet Object Identifier consists of both the object type and object instance number. The object type is abbreviated as follows:</p> <ul style="list-style-type: none"> • AI: Analog Input • AO: Analog Output • AV: Analog Value • BI: Binary Input • BO: Binary Output • BSV: Bitstream Value • BV: Binary Value • CAL: Calendar • CSV: Character String Value • DEVICE: Device Type • FILE: File • MSV: Multi-State Value • PIV: Positive Integer Value • SCHED: Schedule
<p>Name</p>	<p>The name of the object (name object property).</p>
<p>Description</p>	<p>The description of the object (description object property).</p>
<p>Default Value</p>	<p>For objects that represent device programming and are stored persistently, the default value is the value assigned to the Present Value property when shipped from the factory or when factory defaults are loaded.</p>
<p>PV Access</p>	<p>Describes the read/write access permissions and physical storage location of the object's Present Value property, if applicable</p> <ul style="list-style-type: none"> • R/W: The Present Value property is readable and writable • R: The Present Value property is read only • RAM: The Present Value property is stored in RAM, and does not persist across a reset or loss of power • NVM: The Present Value property is stored in Non-Volatile Memory (flash) and is retained across a reset or loss of power
<p>Object Profile</p>	<p>The object profile to which this object conforms. The profile determines which optional properties and behaviors are implemented in the object. Objects with the same profile can be expected to have the same optional properties and behaviors. The three numbers in parentheses represent the value of the Object Profile property.</p> <p>See the UbiquiSTAT™ PICS document for a complete description of the various object profiles.</p>
<p>Additional Information</p>	<p>Lists any restrictions or possible state values that may be assigned to the Present Value property of the object. Numbered states are listed in the order shown over the network or with third-party BACnet network tools. States can be displayed in the same order by touching the UP arrow on the EDIT screen. Some models/versions will not have all states shown in the table.</p>
<p>Model/Screen Number</p>	<p>The numbers represent the order the BACnet object appears in the device object list and coincides with the internal BACnet Explorer screen number. These numbers can be used for quick navigation to that screen. Columns are divided by model and version. Top numbers refer to the wired versions, and bottom numbers refer to the wireless versions. Where there is one screen number in a given field, that means the object screen number is the same for both wired and wireless versions. Where there are two numbers in a field, those number positions correspond to the version they apply to: top for wired, and bottom for wireless. A dash means the object is not available on that model/version.</p>

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
Device	UbiquiSTAT	Advanced Application Thermostat	-	-	Device - Basic (496-8-1)	-	1	1	1	1	1	1	1	1
BV-803	External Time Clock	Indicates occupancy Mode as determined by some external device	-	R/W (RAM)	Commandable (496-5-2)	States: (1) Occupied, (0) Unoccupied	2	2	2	2	2	2	2	2
SCH-800	Occupancy Schedule	Schedule determining setpoints in active use	-	-	Basic (496-17-1)	-	3	3	3	3	3	3	3	3
CAL-801	Schedule Calendar	Calendar for use by the occupancy schedule	-	-	Basic (496-6-1)	-	4	4	4	4	4	4	4	4
MSV-40	Default Setpoint Pair	Setpoint pair used by occupied override and other features	(2) Occ A	R/W (NVM)	Basic (496-19-1)	States: (1) Unocc, (2) Occ A, (3) Occ B, (4) Occ C, (5) Occ D	5	5	5	5	5	5	5	5
MSV-41	Active Setpoint Pair	Active Setpoint Pair	-	R (RAM)	Basic (496-19-1)	States: (1) Unoccupied, (2) Occupied A, (3) Occupied B, (4) Occupied C, (5) Occupied D	6	6	6	6	6	6	6	6
AV-71	Active Cool Setpoint	Currently active cool setpoint	-	R/W (RAM)	Commandable (496-2-2)	Range: -40 to 160°F	7	7	7	7	7	7	7	7
AV-70	Active Heat Setpoint	Currently active heat setpoint	-	R/W (RAM)	Commandable (496-2-2)	Range: -40 to 160°F	8	8	8	8	8	8	8	8
AV-53	A Cool Setpoint	A Cool Setpoint	75°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	9	9	9	9	9	9	9	9
AV-52	A Heat Setpoint	A Heat Setpoint	70°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	10	10	10	10	10	10	10	10
AV-55	B Cool Setpoint	B Cool Setpoint	75°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	11	11	11	11	11	11	11	11

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
AV-54	B Heat Setpoint	B Heat Setpoint	70°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	12	12	12	12	12	12	12	12
AV-57	C Cool Setpoint	C Cool Setpoint	75°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	13	13	13	13	13	13	13	13
AV-56	C Heat Setpoint	C Heat Setpoint	70°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	14	14	14	14	14	14	14	14
AV-59	D Cool Setpoint	D Cool Setpoint	75°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	15	15	15	15	15	15	15	15
AV-58	D Heat Setpoint	D Heat Setpoint	70°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	16	16	16	16	16	16	16	16
AV-51	Unoccupied Cool Setpoint	Unoccupied Cool Setpoint	80°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	17	17	17	17	17	17	17	17
AV-50	Unoccupied Heat Setpoint	Unoccupied Heat Setpoint	60°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	18	18	18	18	18	18	18	18
AV-91	User Setpoint Adjust Limit	User Setpoint Adjust Limit	5°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 20°F	19	19	19	19	19	19	19	19
MSV-94	User Setpoint Adjust Mode	User Setpoint Adjust Mode	(1) Hold	R/W (NVM)	Basic (496-19-1)	States: (1) Hold, (2) Timer	20	20	20	20	20	20	20	20
PIV-92	User Setpoint Adjust Timeout	User Setpoint Adjust Timeout	60 min	R/W (NVM)	Basic (496-48-1)	Range: 1 to 360 min	21	21	21	21	21	21	21	21
AV-90	User Setpoint Adjust	User Setpoint Adjust	-	R/W (RAM)	Basic (496-2-1)	Range: -20 to 20°F	22	22	22	22	22	22	22	22
PIV-93	User Setpoint Adjust Timer	User Setpoint Adjust Timer	-	R (RAM)	Basic (496-48-1)	Range: 0 to 43,200 sec	23	23	23	23	23	23	23	23
BV-950	Cool Stage 1 Enable	Cool Stage 1 Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	24	24	24	24	24	24	24	24
AV-951	Cool Stage 1 Offset	Cool Stage 1 Offset	0°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	25	25	25	25	25	25	25	25
AV-952	Cool Stage 1 Differential	Cool Stage 1 Differential	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	26	26	26	26	26	26	26	26

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
PIV-953	Cool Stage 1 Next Stage Enable Delay	Delay before next stage is allowed to become active	120 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	27	27	27	27	27	27	27	27
BV-960	Cool Stage 2 Enable	Cool Stage 2 Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	28	28	28	-	28	28	28
AV-961	Cool Stage 2 Offset	Cool Stage 2 Offset	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	29	29	29	-	29	29	29
AV-962	Cool Stage 2 Differential	Cool Stage 2 Differential	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	30	30	30	-	30	30	30
PIV-963	Cool Stage 2 Next Stage Enable Delay	Delay before next stage is allowed to become active	120 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	-	31	31	31	-	31	31	31
BV-970	Cool Stage 3 Enable	Cool Stage 3 Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	32	32	32	-	32	32	32
AV-971	Cool Stage 3 Offset	Cool Stage 3 Offset	2°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	33	33	33	-	33	33	33
AV-972	Cool Stage 3 Differential	Cool Stage 3 Differential	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	34	34	34	-	34	34	34
PIV-973	Cool Stage 3 Next Stage Enable Delay	Delay before next stage is allowed to become active	120 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	-	35	35	35	-	35	35	35
BV-980	Cool Stage 4 Enable	Cool Stage 4 Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	36	36	36	-	36	36	36
AV-981	Cool Stage 4 Offset	Cool Stage 4 Offset	3°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	37	37	37	-	37	37	37
AV-982	Cool Stage 4 Differential	Cool Stage 4 Differential	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	38	38	38	-	38	38	38
PIV-983	Cool Stage 4 Next Stage Enable Delay	Delay before next stage is allowed to become active	120 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	-	39	39	39	-	39	39	39
BV-900	Heat Stage 1 Enable	Heat Stage 1 Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	28	40	40	40	28	40	40	40

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
AV-901	Heat Stage 1 Offset	Heat Stage 1 Offset	0°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	29	41	41	41	29	41	41	41
AV-902	Heat Stage 1 Differential	Heat Stage 1 Differential	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	30	42	42	42	30	42	42	42
PIV-903	Heat Stage 1 Next Stage Enable Delay	Delay before next stage is allowed to become active	120 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	31	43	43	43	31	43	43	43
BV-910	Heat Stage 2 Enable	Heat Stage 2 Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	32	44	44	44	32	44	44	44
AV-911	Heat Stage 2 Offset	Heat Stage 2 Offset	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	33	45	45	45	33	45	45	45
AV-912	Heat Stage 2 Differential	Heat Stage 2 Differential	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	34	46	46	46	34	46	46	46
PIV-913	Heat Stage 2 Next Stage Enable Delay	Delay before next stage is allowed to become active	120 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	35	47	47	47	35	47	47	47
BV-920	Heat Stage 3 Enable	Heat Stage 3 Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	48	48	48	-	48	48	48
AV-921	Heat Stage 3 Offset	Heat Stage 3 Offset	2°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	49	49	49	-	49	49	49
AV-922	Heat Stage 3 Differential	Heat Stage 3 Differential	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	50	50	50	-	50	50	50
PIV-923	Heat Stage 3 Next Stage Enable Delay	Delay before next stage is allowed to become active	120 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	-	51	51	51	-	51	51	51
BV-930	Heat Stage 4 Enable	Heat Stage 4 Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	52	52	52	-	52	52	52
AV-931	Heat Stage 4 Offset	Heat Stage 4 Offset	3°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	53	53	53	-	53	53	53
AV-932	Heat Stage 4 Differential	Heat Stage 4 Differential	1°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	54	54	54	-	54	54	54

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
PIV-933	Heat Stage 4 Next Stage Enable Delay	Delay before next stage is allowed to become active	120 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	-	55	55	55	-	55	55	55
AV-1003	Cool Error	Amount of cooling needed. A value of 0 indicates cooling satisfied	-	R (RAM)	Control Error (496-2-4)	Range: 0 to 400°F	36	56	56	56	36	56	56	56
AV-1002	Heat Error	Amount of heating needed. A value of 0 indicates heating satisfied	-	R (RAM)	Control Error (496-2-4)	Range: 0 to 400°F	37	57	57	57	37	57	57	57
BV-850	P+I Enable	Enables P+I feature on Relay stage control	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	38	58	58	58	38	58	58	58
PIV-851	P+I Rate	Rate of the I component in Seconds/Degree, decrease for faster response	300 sec	R/W (NVM)	Basic (496-48-1)	Range: 1 to 3600 sec	39	59	59	59	39	59	59	59
AV-820	Smart Recovery Cool Rate	Rate at which the Smart Recovery adjusts the cooling setpoint in Degrees/Hour, prior to occupied	4°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 20°F	40	60	60	60	40	60	60	60
AV-821	Smart Recovery Heat Rate	Rate at which the Smart Recovery adjusts the heating setpoint in Degrees/Hour, prior to occupied	4°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 20°F	41	61	61	61	41	61	61	61

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
AV-822	Smart Recovery Cool Delta	Current adjustment applied to cooling by Smart Recovery	-	R (RAM)	Basic (496-2-1)	Range: 0 to 200°F	42	62	62	62	42	62	62	62
AV-823	Smart Recovery Heat Delta	Current adjustment applied to heating by Smart Recovery	-	R (RAM)	Basic (496-2-1)	Range: 0 to 200°F	43	63	63	63	43	63	63	63
BV-824	Smart Recovery A Enable	Smart Recovery A Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	44	64	64	64	44	64	64	64
BV-825	Smart Recovery B Enable	Smart Recovery B Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	45	65	65	65	45	65	65	65
BV-826	Smart Recovery C Enable	Smart Recovery C Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	46	66	66	66	46	66	66	66
BV-827	Smart Recovery D Enable	Smart Recovery D Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	47	67	67	67	47	67	67	67
MSV-1100	Active Fan Mode	Active Fan Mode	-	R (RAM)	Basic (496-19-1)	States: (1) Auto, (2) On, (3) Cool, (4) Auto + Re-circ	48	68	68	68	48	68	68	68
MSV-1101	Occupied Fan Mode	Occupied Fan Mode	(1) Auto	R/W (NVM)	Basic (496-19-1)	States: (1) Auto, (2) On, (3) Cool, (4) Auto + Re-circ	49	69	69	69	49	69	69	69
MSV-1102	Unoccupied Fan Mode	Unoccupied Fan Mode	(1) Auto	R/W (NVM)	Basic (496-19-1)	States: (1) Auto, (2) On, (3) Cool, (4) Auto + Re-circ	50	70	70	70	50	70	70	70
PIV-1105	Fan Post-Conditioning Runtime for Heat	How long the fan runs after all heat stages become inactive	60 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	51	71	71	71	51	71	71	71

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
PIV-1106	Fan Post-Conditioning Runtime for Cool	How long the fan runs after all cool stages become inactive	60 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	52	72	72	72	52	72	72	72
BV-1110	Fan Proving Input Status	Fan Proving Input Status	-	R/W (RAM)	Commandable (496-5-2)	States: (1) Active, (0) Inactive	53	73	73	73	53	73	73	73
BV-1111	Fan Proving Failure Status	Indicates whether the fan has failed proving. Write to inactive to reset fan proving	-	R/W (RAM)	Basic (496-5-1)	States: (1) Failed, (0) OK	54	74	74	74	54	74	74	74
PIV-1112	Fan Proving Delay	Delay after fan is activated before proving is performed	30 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 600 sec	55	75	75	75	55	75	75	75
PIV-1113	Fan Proving Recovery Attempts	Fan Proving Recovery Attempts	-	R/W (NVM)	Basic (496-48-1)	Range: 0 to 10	56	76	76	76	56	76	76	76
PIV-1114	Fan Proving Recovery Delay	Delay between each recovery attempt after a proving failure	600 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 43200 sec	57	77	77	77	57	77	77	77
PIV-1115	Fan Recirc Period	Period over which the recirculation is calculated	20 min	R/W (NVM)	Basic (496-48-1)	Range: 10 to 60 min	58	78	78	78	58	78	78	78
PIV-1116	Fan Recirc Occupied Percentage	Minimum duty cycle for fan recirculation when occupied	5.00%	R/W (NVM)	Basic (496-48-1)	Range: 0 to 100%	59	79	79	79	59	79	79	79
PIV-1117	Fan Recirc Unoccupied Percentage	Minimum duty cycle for fan recirculation when unoccupied	0.00%	R/W (NVM)	Basic (496-48-1)	Range: 0 to 100%	60	80	80	80	60	80	80	80

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
MSV-1001	Thermostat Type	Thermostat Type	(1) Conventional	R/W (NVM)	Basic (496-19-1)	States: (1) Conventional, (2) Heat Pump	61	81	81	81	61	81	81	81
MSV-1000	System Mode	System Mode	(2) Auto	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) Auto, (3) Heat, (4) Cool, (5) Emergency Heat, (6) Off + Fan Recirc	62	82	82	82	62	82	82	82
MSV-1005	Active System Mode	System Mode used by control, network commandable. Program using MSV-1000	-	R/W (RAM)	Commandable (496-19-2)	States: (1) Off, (2) Auto, (3) Heat, (4) Cool, (5) Emergency Heat, (6) Off + Fan Recirc	63	83	83	83	63	83	83	83
PIV-1010	Power-Up Delay	Delay after power-up before any control is performed	10 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	64	84	84	84	64	84	84	84
PIV-1011	Reversing Valve Delay	Delay between reversing valve changing state and compressor running	30 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 120 sec	65	85	85	85	65	85	85	85
MSV-1004	System State	System State	-	R (RAM)	Basic (496-19-1)	States: (1) System Off, (2) Disabled, (3) Idle, (4) Heating, (5) Cooling, (6) Heating Lockout, (7) Cooling Lockout, (8) Dehumidification	66	86	86	86	66	86	86	86
MSV-700	Occupancy State	Occupancy State	-	R/W (RAM)	Commandable (496-19-2)	States: (1) Unoccupied, (2) Occupied	67	87	87	87	67	87	87	87
MSV-701	Occupancy Override Mode	Allows user to override occupancy state	(3) Unoccupied Only	R/W (NVM)	Basic (496-19-1)	States: (1) Disabled, (2) Enabled, (3) Unoccupied Only	68	88	88	88	68	88	88	88
PIV-703	Occupancy State Override Time	Duration of timed occupancy state override	180 min	R/W (NVM)	Basic (496-48-1)	Range: 0 to 42,200 sec	69	89	89	89	69	89	89	89

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
PIV-704	Occupied Transition Delay	Delay before scheduled transition to occupied occupancy state	0 sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 sec	70	90	90	90	70	90	90	90
MSV-705	Occupancy Override State	Occupancy Override State	-	R (RAM)	Basic (496-19-1)	States: (1) OFF, (2) ON (Timed), (3) ON (Hold)	71	91	91	91	71	91	91	91
PIV-706	Occupancy Override Timer	Time remaining when override timer is active	-	R (RAM)	Basic (496-48-1)	Range: 0 to 604800 sec	72	92	92	92	72	92	92	92
BV-707	Momentary Occupancy Override	Momentary Occupancy Override	-	R/W (RAM)	Commandable (496-5-2)	States: (1) Active, (0) Inactive	73	93	93	93	73	93	93	93
BV-708	External Occupancy Override	Continuous override to occupied occupancy state	-	R/W (RAM)	Commandable (496-5-2)	States: (1) Active, (0) Inactive	74	94	94	94	74	94	94	94
AI-100	Internal Sensor Input	Built-in temperature input, includes user calibration	-	R (RAM)	Digital Temp Input (496-0-1)	Range: -40 to 160°F	75	95	95	95	75	95	95	95
AV-110	Internal Sensor User Calibration	Built-in temperature user calibration	0°F	R/W (NVM)	Basic (496-2-1)	Range: -20 to 20°F	76	96	96	96	76	96	96	96
AI-96	Internal RH Sensor Input	Built-in RH input, includes user calibration	-	R (RAM)	AI - Digital Temp Input (496-0-1)	Range: 0 to 100%	-	-	-	-	77	97	97	97
AV-107	Internal RH User Calibration	Built-in RH user Calibration	-	R/W (NVM)	AV - Basic (496-2-1)	-	-	-	-	78	98	98	98	98
AI-101	T1 RTD Input	T1 terminal RTD temperature input, includes user calibration	-	R (RAM)	RTD Input (496-0-2)	Range: -40 to 160°F	77	97	97	97	79	99	99	99

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
AV-111	T1 RTD User Calibration	T1 RTD User Calibration	0°F	R/W (NVM)	Basic (496-2-1)	Range: -20 to 20°F	78	98	98	98	80	100	100	100
AI-102	T2 RTD Input	T2 terminal RTD temperature input, includes user calibration	-	R (RAM)	RTD Input (496-0-2)	Range: -40 to 160°F	79	99	99	99	81	101	101	101
AV-112	T2 RTD User Calibration	T2 RTD User Calibration	0°F	R/W (NVM)	Basic (496-2-1)	Range: -20 to 20°F	80	100	100	100	82	102	102	102
AI-103	T3 RTD Input	T3 terminal RTD temperature input, includes user calibration	-	R (RAM)	RTD Input (496-0-2)	Range: -40 to 160°F	81	101	101	101	83	103	103	103
AV-113	T3 RTD User Calibration	T3 RTD User Calibration	0°F	R/W (NVM)	Basic (496-2-1)	Range: -20 to 20°F	82	102	102	102	84	104	104	104
AI-151	AI1	Analog Input 1	-	R (RAM)	Ammeter Input (496-0-3)	Range: 0 to 20 mA	-	-	103	103	-	-	104	105
MSV-170	AI1 Input Range	AI1 Input Range	(1) 4 - 20 mA	R/W (NVM)	Basic (496-19-1)	States: (1) 4 - 20 mA, (2) 0 - 20 mA	-	-	104	104	-	-	105	106
AV-161	AI1 Scaled Min	AI1 Scaled Min	-	R/W (NVM)	Basic (496-2-1)	Range: -1e+06 to 1e+06	-	-	105	105	-	-	106	107
AV-162	AI1 Scaled Max	AI1 Scaled Max	-	R/W (NVM)	Basic (496-2-1)	Range: -1e+06 to 1e+06	-	-	106	106	-	-	107	108
AV-181	AI1 Scaled	Analog Input 1 in engineering units	-	R (RAM)	Ammeter Scaled (496-2-3)	Range: 0 to 100%	-	-	107	107	-	-	108	109
AI-152	AI2	Analog Input 2	-	R (RAM)	Ammeter Input (496-0-3)	Range: 0 to 20 mA	-	-	-	108	-	-	-	110
MSV-171	AI2 Input Range	AI2 Input Range	(1) 4 - 20 mA	R/W (NVM)	Basic (496-19-1)	States: (1) 4 - 20 mA, (2) 0 - 20 mA	-	-	-	109	-	-	-	111
AV-163	AI2 Scaled Min	AI2 Scaled Min	-	R/W (NVM)	Basic (496-2-1)	Range: -1e+06 to 1e+06	-	-	-	110	-	-	-	112
AV-164	AI2 Scaled Max	AI2 Scaled Max	-	R/W (NVM)	Basic (496-2-1)	Range: -1e+06 to 1e+06	-	-	-	111	-	-	-	113

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
AV-182	AI2 Scaled	Analog Input 2 in engineering units	-	R (RAM)	Ammeter Scaled (496-2-3)	Range: 0 to 100%	-	-	-	112	-	-	-	114
MSV-120	Space Temperature Source	Space Temperature Source	(1) Internal Temperature	R/W (NVM)	Basic (496-19-1)	States: (1) Internal Temperature, (2) T1, (3) T1 & Internal Temp. Averaging	83	103	108	113	85	105	109	115
AV-129	Space Temperature Averaging Weight	Weight given to the Internal Temperature when averaging	50.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	84	104	109	114	86	106	110	116
MSV-121	Mixed Air Temperature Source	Mixed Air Temperature Source	(1) None	R/W (NVM)	Basic (496-19-1)	States: (1) None, (2) T1	-	-	110	115	-	-	111	117
MSV-122	Space Carbon Dioxide Source	Space Carbon Dioxide Source	(1) None	R/W (NVM)	Basic (496-19-1)	States: (1) None, (2) AI1, (3) AI2	-	-	111	116	-	-	112	118
MSV-123	Space Relative Humidity Source	Space Relative Humidity Source	(4) Internal Humidity	R/W (NVM)	Basic (496-19-1)	States: (1) None, (2) AI1, (3) AI2, (4) Internal Humidity	-	-	111	117	-	-	113	119
AV-130	Space Temperature	Space Temperature	-	R/W (RAM)	Commandable (496-2-2)	Range: -40 to 160°F	85	105	112	118	87	107	114	120
AV-131	Discharge Air Temperature	Discharge Air Temperature	-	R/W (RAM)	Commandable (496-2-2)	Range: -40 to 160°F	86	106	113	119	88	108	115	121
AV-132	Outdoor Air Temperature	Outdoor Air Temperature	-	R/W (RAM)	Commandable (496-2-2)	Range: -40 to 160°F	87	107	114	120	89	109	116	122
AV-133	Mixed Air Temperature	Mixed Air Temperature	-	R/W (RAM)	Commandable (496-2-2)	Range: -40 to 160°F	-	-	115	121	-	-	117	123
AV-134	Space Carbon Dioxide	Space Carbon Dioxide	-	R/W (RAM)	Commandable (496-2-2)	Range: 0 to 10000 ppm	-	-	116	122	-	-	118	124
AV-135	Space Relative Humidity	Space Relative Humidity	-	R/W (RAM)	Commandable (496-2-2)	Range: 0 to 100% RH	-	-	-	123	-	-	-	125
BI-251	DI1	Digital Input 1	-	R (RAM)	Digital Input (496-3-1)	States: (1) On, (0) Off	88	108	117	124	90	110	119	126

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
MSV-261	DI1 Mode	Digital Input 1 Mode	(1) Monitor	R/W (NVM)	Basic (496-19-1)	States: (1) Monitor, (2) Filter Service, (3) Service, (4) Fan Proving, (5) Economizer Enable, (6) AquaStat, (7) Momentary Occupancy Override, (8) External Occupancy Override, (9) External Time Clock, (10) Setpoint Setback	89	109	118	125	91	111	120	127
BI-252	DI2	Digital Input 2	-	R (RAM)	Digital Input (496-3-1)	States: (1) On, (0) Off	90	110	119	126	92	112	121	128
MSV-262	DI2 Mode	Digital Input 2 Mode	(1) Monitor	R/W (NVM)	Basic (496-19-1)	States: (1) Monitor, (2) Filter Service, (3) Service, (4) Fan Proving, (5) Economizer Enable, (6) AquaStat, (7) Momentary Occupancy Override, (8) External Occupancy Override, (9) External Time Clock, (10) Setpoint Setback	91	111	120	127	93	113	122	129
BI-253	DI3	Digital Input 3	-	R (RAM)	Digital Input (496-3-1)	States: (1) On, (0) Off	92	112	121	128	94	114	123	130
MSV-263	DI3 Mode	Digital Input 3 Mode	(1) Monitor	R/W (NVM)	Basic (496-19-1)	States: (1) Monitor, (2) Filter Service, (3) Service, (4) Fan Proving, (5) Economizer Enable, (6) AquaStat, (7) Momentary Occupancy Override, (8) External Occupancy Override, (9) External Time Clock, (10) Setpoint Setback	93	113	122	129	95	115	124	131
BO-301	W1	Heat 1 / Auxiliary Heat 1 Relay	-	R/W (RAM)	Relay (496-4-1)	States: (1) On, (0) Off	94	114	123	130	96	116	125	132
BO-302	W2	Heat 2 / Auxiliary Heat 2 Relay	-	R/W (RAM)	Relay (496-4-1)	States: (1) On, (0) Off	-	115	124	131	-	117	126	133
BO-303	Y1	Cool 1 / Compressor 1 Relay	-	R/W (RAM)	Relay (496-4-1)	States: (1) On, (0) Off	95	116	125	132	97	118	127	134

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
BO-304	Y2	Cool 2 / Compressor 2 Relay	-	R/W (RAM)	Relay (496-4-1)	States: (1) On, (0) Off	-	117	126	133	-	119	128	135
BO-305	G	Fan Relay	-	R/W (RAM)	Relay (496-4-1)	States: (1) On, (0) Off	96	118	127	134	98	120	129	136
BO-306	B/O	Heat pump reversing valve (Off=Heat, On=Cool), additional stages	-	R/W (RAM)	Relay (496-4-1)	States: (1) On, (0) Off	97	119	128	135	99	121	130	137
MSV-316	B/O Mode	B/O Relay Mode	(1) Off	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) Reversing Valve, (3) Heat Stage 3, (4) Cool Stage 3, (5) Heat Stage 4, (6) Cool Stage 4, (7) Dedicated Dehumidification, (8) Dedicated Reheat	98	120	129	136	100	122	131	138
BO-307	TC	Time clock output Relay, additional stages	-	R/W (RAM)	Relay (496-4-1)	States: (1) On, (0) Off	99	121	130	137	101	123	132	139
MSV-317	TC Mode	TC Relay Mode	(1) Off	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) Time Clock, (3) Heat Stage 3, (4) Cool Stage 3, (5) Heat Stage 4, (6) Cool Stage 4, (7) Demand Ventilation DO Enable, (8) Dedicated Dehumidification, (9) Dedicated Reheat	100	122	131	138	102	124	133	140
AO-200	A01	Analog Output 1	-	R/W (RAM)	Current Generator (496-1-1)	Range: 0 to 20 mA	101	-	132	139	103	-	134	141
AV-240	A01 Percentage	Analog Output 1 percentage	-	R/W (RAM)	Commandable (496-2-2)	Range: 0 to 100%	102	-	133	140	104	-	135	142
MSV-210	A01 Mode	Analog Output 1 Mode	(1) Off	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) Heat/Cool/AquaStat, (3) OA Damper, (4) Midpoint	103	-	134	141	105	-	136	143
MSV-220	A01 Action	Analog Output 1 action	(1) Direct	R/W (NVM)	Basic (496-19-1)	States: (1) Direct, (2) Reverse	104	-	135	142	106	-	137	144

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
MSV-230	A01 Range	Analog Output 1 range	(1) 4 – 20 mA	R/W (NVM)	Basic (496-19-1)	States: (1) 4 – 20 mA, (2) 0 – 20 mA	105	-	136	143	107	-	138	145
AO-201	A02	Analog Output 2	-	R/W (RAM)	Current Generator (496-1-1)	Range: 0 to 20 mA	106	-	-	144	108	-	-	146
AV-241	A02 Percentage	Analog Output 2 percentage	-	R/W (RAM)	Commandable (496-2-2)	Range: 0 to 100%	107	-	-	145	109	-	-	147
MSV-211	A02 Mode	Analog Output 2 Mode	(1) Off	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) Heat/Cool/AquaStat, (3) OA Damper, (4) Midpoint	108	-	-	146	110	-	-	148
MSV-221	A02 Action	Analog Output 2 action	(1) Direct	R/W (NVM)	Basic (496-19-1)	States: (1) Direct, (2) Reverse	109	-	-	147	111	-	-	149
MSV-231	A02 Range	Analog Output 2 range	(1) 4 – 20 mA	R/W (NVM)	Basic (496-19-1)	States: (1) 4 – 20 mA, (2) 0 – 20 mA	110	-	-	148	112	-	-	150
MSV-1400	A01 H/C/A Mode	Analog Output 1 Heat/Cool/AquaStat Mode	(1) Heat	R/W (NVM)	Basic (496-19-1)	States: (1) Heat, (2) Cool, (3) AquaStat	111	-	-	149	113	-	-	151
AV-1410	A01 H/C/A Min Position	Analog Output 1 Heat/Cool/AquaStat minimum position	0.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	112	-	-	150	114	-	-	152
AV-1420	A01 H/C/A Max Position	Analog Output 1 Heat/Cool/AquaStat maximum position	100.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	113	-	-	151	115	-	-	153
MSV-1430	A01 H/C/A Unoccupied Mode	Analog Output 1 Heat/Cool/AquaStat unoccupied Mode	(1) Modulate	R/W (NVM)	Basic (496-19-1)	States: (1) Modulate, (2) Fixed	114	-	-	152	116	-	-	154

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
AV-1440	A01 H/C/A Unoccupied Fixed Output	Analog Output 1 Heat/Cool/ AquaStat unoccupied fixed output	100.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	115	-	-	153	117	-	-	155
MSV-1401	A02 H/C/A Mode	Analog Output 2 Heat/Cool/ AquaStat Mode	(1) Heat	R/W (NVM)	Basic (496-19-1)	States: (1) Heat, (2) Cool, (3) AquaStat	116	-	-	154	118	-	-	156
AV-1411	A02 H/C/A Min Position	Analog Output 2 Heat/Cool/ AquaStat minimum position	0.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	117	-	-	155	119	-	-	157
AV-1421	A02 H/C/A Max Position	Analog Output 2 Heat/Cool/ AquaStat maximum position	100.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	118	-	-	156	120	-	-	158
MSV-1431	A02 H/C/A Unoccupied Mode	Analog Output 2 Heat/Cool/ AquaStat unoccupied Mode	(1) Modulate	R/W (NVM)	Basic (496-19-1)	States: (1) Modulate, (2) Fixed	119	-	-	157	121	-	-	159
AV-1441	A02 H/C/A Unoccupied Fixed Output	Analog Output 2 Heat/Cool/ AquaStat unoccupied fixed output	100.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	120	-	-	158	122	-	-	160
MSV-1450	AquaStat Mode	AquaStat method for determining whether to heat or cool	(1) Analog	R/W (NVM)	Basic (496-19-1)	States: (1) Analog, (2) Digital	121	-	-	159	123	-	-	161
AV-1451	AquaStat Analog Setpoint	Setpoint used by analog aquaStat Mode	75°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	122	-	-	160	124	-	-	162
BV-1452	AquaStat Digital Control	AquaStat Digital Control	-	R/W (RAM)	Commandable (496-5-2)	States: (1) Heat, (0) Cool	123	-	-	161	125	-	-	163

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
AV-1600	Heat Analog Output	Heat Analog Output	-	R (RAM)	Basic (496-2-1)	Range: 0 to 100%	124	-	-	162	126	-	-	164
AV-1601	Cool Analog Output	Cool Analog Output	-	R (RAM)	Basic (496-2-1)	Range: 0 to 100%	125	-	-	163	127	-	-	165
AV-1610	Heat Prop Band	Proportional band for modulating heat	5°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	126	-	-	164	128	-	-	166
AV-1611	Cool Prop Band	Proportional band for modulating cool	5°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	127	-	-	165	129	-	-	167
AV-1602	AO Heat Setpoint Offset	Offset subtracted from the heat setpoint for modulating control	0°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 25°F	128	-	-	166	130	-	-	168
AV-1603	AO Cool Setpoint Offset	Offset added to the cool setpoint for modulating control	0°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 25°F	129	-	-	167	131	-	-	169
BV-1604	Heat Discharge Reset Enable	Heat Discharge Reset Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	130	-	-	168	132	-	-	170
AV-1606	Heat Discharge Reset Ratio	Heat Discharge Reset Ratio	-	R/W (NVM)	Basic (496-2-1)	Range: 0 to 10	131	-	-	169	133	-	-	171
AV-1608	Heat Discharge Reset Base Setpoint	Heat Discharge Reset Base Setpoint	75°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	132	-	-	170	134	-	-	172
AV-1612	Heat Discharge Reset Active Setpoint	Heat Discharge Reset Active Setpoint	-	R (RAM)	Basic (496-2-1)	Range: -40 to 160°F	133	-	-	171	135	-	-	173
BV-1605	Cool Discharge Reset Enable	Cool Discharge Reset Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	134	-	-	172	136	-	-	174
AV-1607	Cool Discharge Reset Ratio	Cool Discharge Reset Ratio	-	R/W (NVM)	Basic (496-2-1)	Range: 0 to 10	135	-	-	173	137	-	-	175

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
AV-1609	Cool Discharge Reset Base Setpoint	Cool Discharge Reset Base Setpoint	60°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	136	-	-	174	138	-	-	176
AV-1613	Cool Discharge Reset Active Setpoint	Cool Discharge Reset Active Setpoint	-	R (RAM)	Basic (496-2-1)	Range: -40 to 160°F	137	-	-	175	139	-	-	177
MSV-1622	Heat Discharge Tempering Mode	Heat Discharge Tempering Mode	(1) Off	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) On, (3) Occupied Only	138	-	-	176	140	-	-	178
AV-1620	Heat Discharge Tempering Setpoint	Heat Discharge Tempering Setpoint	60°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	139	-	-	177	141	-	-	179
AV-1624	Heat Discharge Tempering Prop Band	Proportional band for heat discharge tempering	10°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	140	-	-	178	142	-	-	180
AV-1626	Heat Discharge Tempering Output	Heat Discharge Tempering Output	-	R (RAM)	Basic (496-2-1)	Range: 0 to 100%	141	-	-	179	143	-	-	181
MSV-1623	Cool Discharge Tempering Mode	Cool Discharge Tempering Mode	(1) Off	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) On, (3) Occupied Only	142	-	-	180	144	-	-	182
AV-1621	Cool Discharge Tempering Setpoint	Cool Discharge Tempering Setpoint	80°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	143	-	-	181	145	-	-	183
AV-1625	Cool Discharge Tempering Prop Band	Proportional band used by cool discharge tempering	10°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	144	-	-	182	146	-	-	184
AV-1627	Cool Discharge Tempering Output	Cool Discharge Tempering Output	-	R (RAM)	Basic (496-2-1)	Range: 0 to 100%	145	-	-	183	147	-	-	185
AV-1500	Outdoor Damper Min Position	Outdoor Damper Min Position	0.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	-	-	137	184	-	-	138	186

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
MSV-1501	Outdoor Damper Control Source	Outdoor Damper Control Source	(1) Discharge Air	R/W (NVM)	Basic (496-19-1)	States: (1) Discharge Air, (2) Mixed Air	-	-	138	185	-	-	139	187
AV-1510	Economizer Output	Economizer Output	-	R (RAM)	Basic (496-2-1)	Range: 0 to 100%	-	-	139	186	-	-	140	188
MSV-1511	Economizer Mode	Determines when economizer is activated	(3) Drybulb Setpoint	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) Digital Input, (3) Drybulb Setpoint, (4) Drybulb Compare	-	-	140	187	-	-	141	189
AV-1512	Economizer Setpoint	Economizer Setpoint	55°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	-	-	141	188	-	-	142	190
AV-1513	Economizer Prop Band	Proportional band for economizer	10°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	-	142	189	-	-	143	191
AV-1514	Economizer OA Drybulb Setpoint	Economizer Outdoor Drybulb Setpoint	60°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	-	-	143	190	-	-	144	192
AV-1515	Economizer OA Drybulb Compare Delta	Difference between outdoor and space temperature before economizer is activated	10°F	R/W (NVM)	Basic (496-2-1)	Range: 0 to 50°F	-	-	144	191	-	-	145	193
BV-1516	Economizer Unoccupied Enable	Economizer Unoccupied Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	-	145	192	-	-	146	194
BV-1517	Economizer DI Enable	Economizer enable for Digital Input economizer Mode	-	R/W (RAM)	Commandable (496-5-2)	States: (1) Enabled, (0) Disabled	-	-	146	193	-	-	147	195
BV-1518	Economizer Free Cooling Available	Indicates economizer can provide cooling	-	R (RAM)	Basic (496-5-1)	States: (1) True, (0) False	-	-	147	194	-	-	148	196

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
BV-1519	Economizer Enabled	Indicates economizer is currently providing cooling	-	R (RAM)	Basic (496-5-1)	States: (1) True, (0) False	-	-	148	195	-	-	149	197
AV-1530	Demand Ventilation Output	Demand Ventilation Output	-	R (RAM)	Basic (496-2-1)	Range: 0 to 100%	-	-	149	196	-	-	150	198
BV-1531	Demand Ventilation Enable	Demand Ventilation Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	-	150	197	-	-	151	199
AV-1532	Demand Ventilation Setpoint	Demand ventilation CO ₂ setpoint	900 ppm	R/W (NVM)	Basic (496-2-1)	Range: 0 to 1000 ppm	-	-	151	198	-	-	152	200
AV-1533	Demand Ventilation Prop Band	Demand ventilation CO ₂ proportional band	200 ppm	R/W (NVM)	Basic (496-2-1)	Range: 0 to 1000 ppm	-	-	152	199	-	-	153	201
BV-1534	Demand Ventilation LL Override Enable	Allows demand ventilation to override discharge air low limit	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	-	153	200	-	-	154	202
AV-1535	Demand Ventilation Hysteresis	Demand ventilation hysteresis for digital output	100 ppm	R/W (RAM)	Basic (496-2-1)	Range: 0 to 100 ppm	-	-	154	201	-	-	155	203
BV-1536	Demand Ventilation Digital Output	Indicates demand ventilation digital output is active	-	R (RAM)	Basic (496-5-1)	-	-	-	155	202	-	-	156	204
AV-1540	OA Damper Discharge Air LL Output	OA Damper Discharge Air Low Limit Output	-	R (RAM)	Basic (496-2-1)	Range: 0 to 100%	-	-	156	203	-	-	157	205
BV-1541	OA Damper Discharge Air LL Enable	OA Damper Discharge Air Low Limit Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	-	157	204	-	-	158	206

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
AV-1542	OA Damper Discharge Air LL Setpoint	Setpoint at which the OA damper is fully closed	40°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	-	-	158	205	-	-	159	207
AV-1550	Pre-occ Purge Output	Pre-occupancy Purge Output	-	R (RAM)	Basic (496-2-1)	Range: 0 to 100%	-	-	159	206	-	-	1160	208
BV-1551	Pre-occ Purge Enable	Pre-occupancy Purge Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	-	160	207	-	-	161	209
AV-1552	Pre-occ Purge OA Damper Position	Pre-occupancy Purge OA Damper Position	25.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	-	-	161	208	-	-	162	210
PIV-1553	Pre-occ Purge Duration	Duration prior to occupied occupancy state when feature is active	60 min	R/W (NVM)	Basic (496-48-1)	Range: 0 to 240 min	-	-	162	209	-	-	163	211
AV-1700	Midpoint Bias	Percent of output allocated to heating for midpoint control.	50.00%	R/W (NVM)	Basic (496-2-1)	Range: 0 to 100%	146	-	-	210	148	-	-	212
BSV-1120	Limit and Lockout Status	Limit and Lockout Status	-	R (RAM)	Basic (496-39-1)	Bits: (1) OA Lockout Heat, (2) OA Lockout Cool, (3) DA Limit Heat, (4) DA Limit Cool, (5) LL Changeover	147	123	163	211	149	125	164	213
BV-1130	Outdoor Air Lockout Enable	Outdoor Air Lockout Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	148	124	164	212	150	126	165	214
AV-1132	Outdoor Air Lockout Cool Setpoint	Mechanical cooling is not allowed when outdoor air is below this value	55°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	149	125	165	213	151	127	166	215
AV-1131	Outdoor Air Lockout Heat Setpoint	Heating is not allowed when outdoor air is above this value	70°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	150	126	166	214	152	128	167	216

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
BV-1140	Discharge Air Limit Enable	Discharge Air Limit Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	151	127	167	215	153	129	168	217
AV-1142	Discharge Air Limit Cool Setpoint	Cooling is not allowed when discharge air is below this value	40°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	152	128	168	216	154	130	169	218
AV-1141	Discharge Air Limit Heat Setpoint	Heating is not allowed when discharge air is above this value	140°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	153	129	169	217	155	131	170	219
BV-1150	Low Limit Changeover Enable	Outdoor air low limit changeover enable (heat pump only)	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	154	130	170	218	156	132	171	220
AV-1151	Low Limit Changeover Setpoint	Compressors are disabled below this outdoor air setpoint (heat pump only)	20°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	155	131	171	219	157	133	172	221
BV-1250	DI Setpoint Setback State	DI Setpoint Setback State	-	R/W (RAM)	Commandable (496-5-2)	States: (1) Active, (0) Inactive	156	132	172	220	158	134	173	222
BV-1251	DI Setpoint Setback Input	DI Setpoint Setback Input	-	R (RAM)	Commandable (496-48-1)	States: (1) Active, (0) Inactive	157	133	173	221	159	135	174	223
PIV-1252	DI Setpoint Setback Start Delay	Duration setback must remain active before setback state becomes active	60 Sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 Sec	158	134	174	222	160	136	175	224
PIV-1253	DI Setpoint Setback Minimum On Time	DI Setpoint Setback Minimum On Time	60 Sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 3600 Sec	159	135	175	223	161	137	176	225
AV-1254	DI Setpoint Setback Value	Amount to setback the heating and cooling setpoints	2°F	R/W (NVM)	Basic (496-2-1)	Range: -25 to 25°F	160	136	176	224	162	138	177	226

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
BSV-1200	Service Status	Service Status	-	R (RAM)	Basic (496-39-1)	Bits: (1) Check Filter, (2) Fan Proving, (3) Discharge Limit Low, (4) Discharge Limit High, (5) DI1 Service, (6) DI2 Service, (7) DI3 Service	161	137	177	225	163	139	178	227
CSV-1210	DI1 Service Status Custom Message	DI1 Service Status Custom Message	-	R/W (NVM)	Basic (496-40-1)	-	162	138	178	226	164	140	179	228
CSV-1211	DI2 Service Status Custom Message	DI2 Service Status Custom Message	-	R/W (NVM)	Basic (496-40-1)	-	163	139	179	227	165	141	180	229
CSV-1212	DI3 Service Status Custom Message	DI3 Service Status Custom Message	-	R/W (NVM)	Basic (496-40-1)	-	164	140	180	228	166	142	181	230
MSV-1340	Dehumid Mode	Dehumidification Mode	1	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) Cool Stage 1, (3) All Cool Stages, (4) Modulating Output, (5) Dedicated Digital Output	-	-	-	-	167	143	182	231
AV-1341	Dehumid Occupied Setpoint	Dehumidification Occupied Setpoint	60% RH	R/W (NVM)	Basic (496-2-1)	-	-	-	-	-	168	144	183	232
AV-1342	Dehumid Error	Amount of Dehumidification Needed	-	R (RAM)	Control Error (496-2-4)	-	-	-	-	-	169	145	184	233
AV-1343	Dehumid Differential	Dehumidification Differential	5% RH	R/W (NVM)	Basic (496-2-1)	-	-	-	-	-	170	146	185	234
BV-1344	Dehumid Active	Dehumidification Active	-	R (RAM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	-	-	-	-	171	147	186	235
AV-1345	Dehumid Prop Band	Proportional Band for Dehumidification	10% RH	R/W (NVM)	Basic (496-2-1)	-	-	-	-	-	172	148	187	236
AV-1346	Dehumid Reheat Error	Amount of Reheat Needed	-	R (RAM)	Control Error (496-2-4)	-	-	-	-	-	173	149	188	237

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
MSV-1347	Dehumid Reheat Setpoint Mode	Dehumidification Reheat Setpoint Mode	1	R/W (NVM)	Basic (496-19-1)	States: (1) Delta, (2) Fixed	-	-	-	-	174	150	189	238
AV-1348	Dehumid Reheat Fixed Setpoint	Dehumidification Reheat Fixed Setpoint	73°F	R/W (NVM)	Basic (496-2-1)	-	-	-	-	175	151	190	239	
AV-1349	Dehumid Reheat Setpoint Delta	Reheat Setpoint Delta Subtracted From the Cool Setpoint	2°F	R/W (NVM)	Basic (496-2-1)	-	-	-	-	176	152	191	240	
AV-1350	Dehumid Reheat Active Setpoint	Dehumidification Reheat Active Setpoint	-	R (RAM)	Basic (496-2-1)	-	-	-	-	177	153	192	241	
MSV-1351	Dehumid Reheat Mode	Dehumidification Reheat Mode	1	R/W (NVM)	Basic (496-19-1)	States: (1) Off, (2) Heat Stages, (3) Modulating Output, (4) Dedicated Digital Output, (5) Suspend Dehumidification	-	-	-	-	178	154	193	242
AV-1353	Dehumid Reheat Prop Band	Proportional band for Dehumidification Reheat	4°F	R/W (NVM)	Basic (496-2-1)	-	-	-	-	179	155	194	243	
AV-1360	Dehumid Unoccupied Setpoint	Dehumidification Unoccupied Setpoint	100% RH	R/W (NVM)	Basic (496-2-1)	-	-	-	-	180	156	195	244	
PIV-401	Command Override Timeout	Commands at priority 10 are automatically relinquished after this time	600 Sec	R/W (NVM)	Basic (496-48-1)	Range: 0 to 604800 Sec	165	141	181	229	181	157	196	245
BV-802	Daylight Saving Time Enable	Daylight Saving Time Enable	(1) Enabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	166	142	182	230	182	158	197	246
PIV-603	RS-485 Address	RS-485 Address	0	R/W (NVM)	Basic (496-48-1)	Range: 0 to 127	167	143	183	231	183	159	198	247

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
MSV-601	RS-485 Baud Rate	RS-485 Baud Rate	(3) 38,400	R/W (NVM)	Basic (496-19-1)	States: (1) 9,600, (2) 19,200, (3) 38,400, (4) 57,600, (5) 76,800, (6) 15,200	168	144	184	232	184	160	199	248
MSV-602	RS-485 Mode	Communication Protocol used on the RS-485 bus	(2) BACnet MS/TP	R/W (NVM)	Basic (496-19-1)	States: (1) TCSbus, (2) BACnet MS/TP	169	145	185	233	185	161	200	249
BV-1800	Residential Mode Enable	Residential Mode Enable	(0) Disabled	R/W (NVM)	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	170	146	186	234	186	162	201	250
MSV-1801	Residential Mode Setpoint Source	Residential Mode Setpoint Source	(1) Schedule	R/W (NVM)	Basic (496-19-1)	States: (1) Schedule, (2) Hold	171	147	187	235	187	163	202	251
AV-1802	Residential Mode Hold Heat Setpoint	Residential Mode Hold Heat Setpoint	70°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	172	148	188	236	188	164	203	252
AV-1803	Residential Mode Hold Cool Setpoint	Residential Mode Hold Cool Setpoint	75°F	R/W (NVM)	Basic (496-2-1)	Range: -40 to 160°F	173	149	189	237	189	165	204	253
PIV-501	User Access Code	Access code required to change settings at thermostat. Set 0 to disable	-	R/W (NVM)	Basic (496-48-1)	Range: 0 to 9999	174	150	190	238	191	166	205	254
MSV-502	Display Clock Format (12/24 hour)	Time format shown on local display	(1) 12 Hour	R/W (NVM)	Basic (496-19-1)	States: (1) 12 Hour, (2) 24 Hour	175	151	191	239	192	167	206	255
MSV-503	Display Units (F/C)	Temperature units on local display	(1) Fahrenheit	R/W (NVM)	Basic (496-19-1)	States: (1) Fahrenheit, (2) Celsius	176	152	192	240	193	168	207	256
MSV-504	Display Brightness	Backlight brightness on local display	(3) High	R/W (NVM)	Basic (496-19-1)	States: (1) Low, (2) Medium, (3) High	177	153	193	241	194	169	208	257

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
MSV-505	Display Banner Mode	Information shown in top-right corner of local display	(1) Date & Time and Name	R/W (NVM)	Basic (496-19-1)	State: (1) Date & Time and Name, (2) Date & Time Only	178	154	194	242	195	170	209	258
MSV-507	Display Branding Mode	Controls brand information on display	(2) TCS	R/W (NVM)	Basic (496-19-1)	State: (1) None, (2) TCS, (3) Custom	179	155	195	243	196	171	210	259
CSV-506	Display Info Text	Optional text shown on local display. Automatically cleared after Command Override Timeout	-	R/W (NVM)	Basic (496-40-1)	-	180	156	196	244	197	172	211	260
CSV-508	Display About Text	Text shown on About screen when in Custom Branding Mode	-	R/W (NVM)	Basic (496-40-1)	-	181	157	197	245	198	173	212	261
BV-2012	WiFi Enable	Allows the WiFi feature to be disabled if not in use	-	R/W (NVM)	Basic (496-40-1)	States: (1) Enabled, (0) Disabled	- 182	- 158	- 198	- 246	- 199	- 174	- 213	- 262
MSV-2010	WiFi Status	Current status of the WiFi connection	(13) Disabled	R, NVM	Basic (496-19-1)	(1) Unknown, (2) Connected, (3) Initializing, (4) Initialized, (5) Disconnecting, (6) Not Configured, (7) Key Invalid, (8) Join Failed, (9) Authenticating, (10) Obtaining DHCP, (11) Configuring Sockets, (12) Scanning for SSID, (13) Disabled	- 183	- 159	- 199	- 247	- 200	- 175	- 214	- 263
PIV-2011	Signal Strength	Signal strength as measured by the radio	-	R, NVM	Basic (496-19-1)	Larger numbers are better	- 184	- 160	- 20	- 248	- 201	- 176	- 215	- 264

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
CSV-2000	IP Address	Current or last known IPv4 address in dotted notation	0.0.0.0	R/W, NVM	Basic (496-40-1)	Write only if Static Addressing	- 185	- 161	- 201	- 249	- 202	- 177	- 216	- 265
CSV-2001	IP Subnet Mask	Current or last known IPv4 subnet mask address in dotted notation	0.0.0.0	R/W, NVM	Basic (496-40-1)	Write only if Static Addressing	- 186	- 162	- 202	- 250	- 203	- 178	- 217	- 266
CSV-2002	IP Gateway Address	Current or last known IPv4 gateway address in dotted notation	0.0.0.0	R/W, NVM	Basic (496-40-1)	Write only if Static Addressing	- 187	- 163	- 203	- 251	- 204	- 179	- 218	- 267
CSV-2009	IP DNS Address	Current or last known IPv4 DNS address in dotted notation	0.0.0.0	R/W, NVM	Basic (496-40-1)	Write only if Static Addressing	- 188	- 164	- 204	- 252	- 205	- 180	- 219	- 268
PIV-2003	IP BACnet Port	Current port used for BACnet/IP traffic	47808	R/W, NVM	Basic (496-48-1)	Range: 47808 – 47823	- 189	- 165	- 205	- 253	- 206	- 181	- 220	- 269
CSV-2004	IP Name	Name presented by device on network	-	R/W, NVM	Basic (496-40-1)	-	- 190	- 166	- 206	- 254	- 207	- 182	- 221	- 270
MSV-2005	IP Address Mode	IP Address Mode	DHCP (1)	R/W, NVM	Basic (496-19-1)	States: (1) DHCP, (2) Static	- 191	- 167	- 207	- 255	- 208	- 183	- 222	- 271
CSV-2006	WiFi SSID	WiFi Network SSID	-	R/W, NVM	Basic (496-40-1)	-	- 192	- 168	- 208	- 256	- 209	- 184	- 223	- 272
CSV-2007	WiFi Passphrase	WiFi Network Passphrase	-	W, NVM	Basic (496-40-1)	-	- 193	- 169	- 209	- 257	- 210	- 185	- 224	- 273
MSV-2008	WiFi Security Mode	WiFi Security Mode	(1) None	R/W, NVM	Basic (496-19-1)	State: (1) None, (2) WPA, (3) WPA2, (4) WEP	- 194	- 170	- 210	- 258	- 211	- 186	- 225	- 274
CSV-2013	MAC Address	MAC Address in hyphen notation	-	R/W, NVM	Basic (496-40-1)	-	- 195	- 171	- 211	- 259	- 212	- 187	- 226	- 275

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							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
PIV-2014	WiFi Reset Interval	Interval in Hours to wait between resetting the WiFi interface.	12	R/W, NVM	Basic (496-48-1)	Range 0 to 48 Hours	- 196	- 172	- 212	- 260	- 213	- 188	- 227	- 276
BV-2017	Foreign Device Registration Enable	Turn on foreign device registration functionality	(0) Disabled	R/W, NVM	Basic (496-5-1)	State: (1) Enabled, (0) Disabled	- 197	- 173	- 213	- 261	- 214	- 189	- 218	- 277
CSV-2015	IP Address of BBMD	IPv4 address of BBMD, in dotted notation	-	R/W, NVM	Basic (496-40-1)	-	- 198	- 174	- 214	- 262	- 215	- 190	- 219	- 278
PIV-2016	Foreign Device Registration TTL	Interval in seconds that will be requested as TTL with BBMD	1800 sec	R/W, NVM	Basic (496-48-1)	Range: 30 to 65534 Seconds	- 199	- 175	- 215	- 263	- 216	- 191	- 220	- 279
FILE-1300	Firmware Upgrade File	Firmware Upgrade File	-	R/W, NVM	Dataflash (496-10-1)	-	182 200	158 176	198 216	246 264	198 217	192	221 232	280 262
FILE-1301	Factory Settings File	Factory Settings File	-	R/W, NVM	Dataflash (496-10-2)	-	183 201	159 177	199 217	247 265	199 218	193	222 233	263 281
FILE-1302	User Settings File	User settings for backup and restore	-	R/W, NVM	Dataflash (496-10-2)	-	184 202	160 178	200 218	248 266	200 219	194	223 234	264 282
FILE-1303	Operation Statistics File	Operation Statistics File	-	R/W, NVM	Dataflash (496-10-2)	-	185 203	161 179	201 219	249 267	201 220	195	224 235	265 283
FILE-1304	User Image File	User Image File	-	R/W, NVM	Dataflash (496-10-1)	-	186 204	162 180	202 220	250 268	202 221	196	225 236	266 284
FILE-1320	Diagnostic Log File	Diagnostic Log File	-	R/W, NVM	Basic (496-10-3)	-	187 205	163 181	203 221	251 269	203 222	197	226 237	267 285
IV-3000	PIV Example Object	PIV Example Object	0	R/W, NVM	Basic (496-45-2)	Range: -100 to 100	188 206	164 182	204 222	252 270	204 223	198	227 238	269 286
PIV-3001	PIV Object Example	PIV Object Example	0	R/W, NVM	Basic (496-45-2)	-	189 207	165 183	205 223	253 271	205 224	199	278 239	257 -

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Object ID	Name	Description	Default Value	PV Access	Object Profile	Additional Information	Model / Screen Number							
							4010	4020	4040	4050	4011	4021	4041	4051
							4110	4120	4140	4150	4111	4121	4141	4151
MSV-318	Y1 Mode	Heat Stage 2 in Conventional Mode	(1) Cool Stage 1	R/W, NVM	Basic (496-19-1)	State: (1) Cool Stage 1, (2) Heat Stage 2	190 208	-	-	-	206 225	-	-	-
AO-3002	AO Example Object	AO Example Object	-	R/W (RAM)	Current Generator (496-1-1)	Range: 0 - 20 mA	-	166 184	-	-	-	200	-	-
BV-509	Status Screen Access Code Enable	Access Code PIV:501 required to change Status Screens at the thermostat. Set to 0 to Disable.	(0) Disabled	R/W, NVM	Basic (496-5-1)	States: (1) Enabled, (0) Disabled	191 209	167 185	206 224	254 272	207 226	201	279 240	270 287
MSV-499	Home Screen Input Source	Home Screen Input Source	(2) Outside	R/W, NVM	Basic (496-19-1)	State: (1) None, (2) Outside, (3) Discharge, (4) Mixed, (5) Humidity, (6) CO ₂	192 210	168 186	207 225	255 273	208 227	202	280 241	271 288