

Viconics Room Controller

TRCn500nnnn-VC Modbus Integration Guide

Firmware Revision 2.2

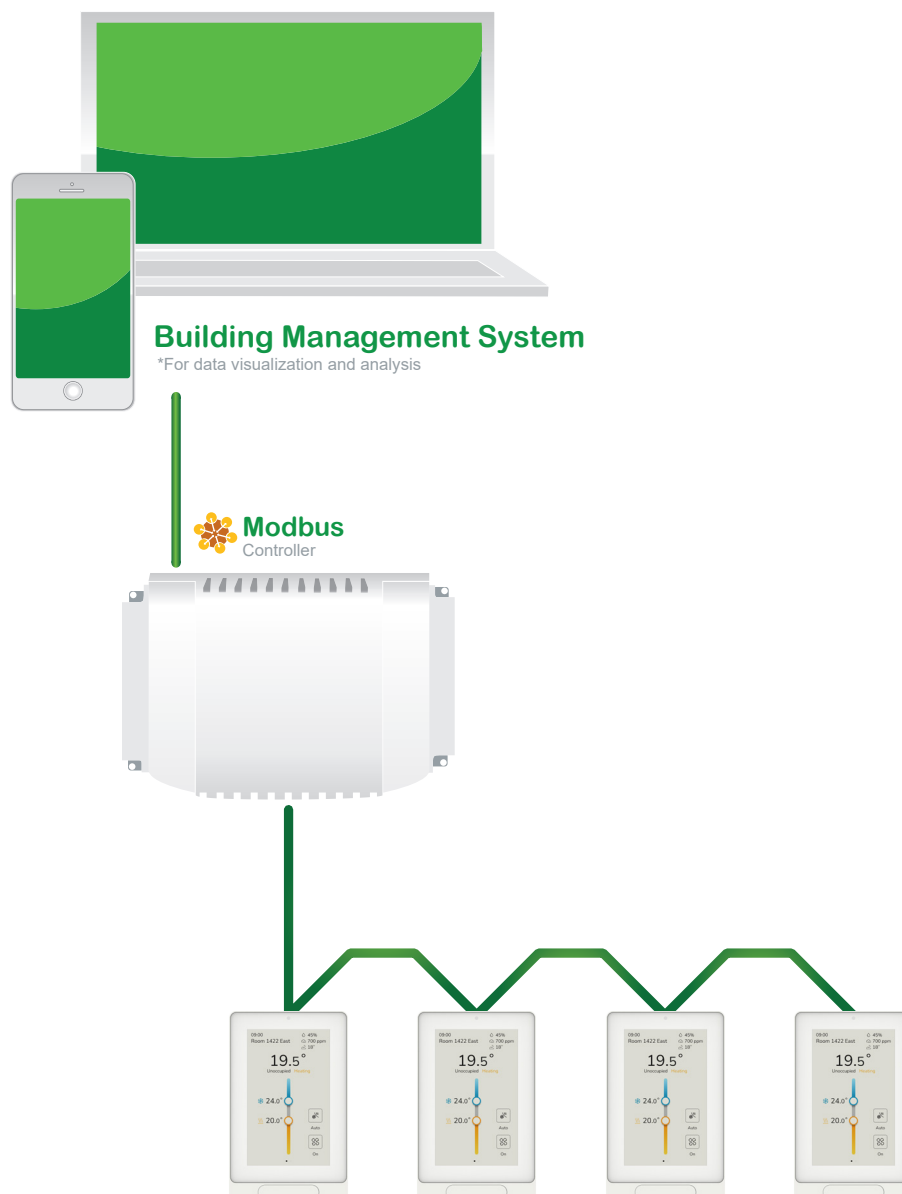


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Introduction

Modbus is an application-layer messaging protocol which is independent of the physical network layer. A Modbus serial line can be integrated into Modbus TCP networks, using simple gateways.

Modbus Specifications

The Viconics Room Controller TRCn500nnnn-VC acts as a Modbus slave by using its RS485 port. As BACnet and Modbus use the same RS485 port, a setup menu allows switching between the two protocols.

Modbus Specific Read-Only Points

The below points serve to identify the version Numbers for all Viconics Room Controllers.

Modbus point type	Description	Modbus functions available	Modbus Register	Modbus Address
16-bit Input	Hardware Revision	4	9001	39001
16-bit Input	Software Version Major	4	9002	39002
16-bit Input	Software Version Minor	4	9003	39003
16-bit Input	Software Version Revision	4	9004	39004
16-bit Input	Software Version Build	4	9005	39005
16-bit Input	Model Number	4	9006	39006

Configuration

Modbus

Network Type
RTU

COM Address
< 254 >

Network Units
Imperial

Baud Rate
19200

Parity
Even

Ok Cancel

- Network units can be changed to SI or Imperial
- The baudrate can be: 4800 / 9600 / 19200 / 38400 / 57600
- The data bits are always 8
- The parity can be: none, odd or even. In case of parity odd or even, 1 stop bit is used, otherwise 2 stop bits are used

Configuration Parameters Default Value	Significance and Adjustments
Network Type Default value: Disabled	Network Type • Disabled • RTU: Only available if the BACnet Network Type is not set to MSTP. Choices: Disabled or RTU
COM Address Default value: 254	COM Address Room Controller networking address. NOTE: A COM Address may be shared between Modbus and BACnet/MSTP. Range: 0 to 254
Network Units Default value: Imperial	Network Units Network units transmitted over the Modbus network. NOTE: Use the Temperature scale parameter to change the display units locally on the Room Controller. • SI: Network units shown as International Metric units. • Imperial: Network units shown as Imperial units. Choices: 0=SI, 1=Imperial
Baud Rate Default value: 19200	Modbus Baud Rate Select the applicable Modbus baud rate. Choices: 0=4800, 1=9600, 2=19200, 3=38400, 4=57600
Parity Default value: Even	Modbus Parity Bit Determines how the parity bit of the character's data frame is set to detect any errors in the sent/receives frame. Choices: 0=None, 1=Odd, 2=Even

Mapping

The mapping is directly based on database IDs.

Modbus			DB ID
Address	Register	Function Code	
1	1	1	0x6000 (BOs)
5001	5001	1/5	0x4000 (BVs)
10001	1	2	0x5000 (BIs)
30001	1	4	0x3000 (AHVs)
31001	1001	4	0x7000 (AIs)
35001	5001	4	0xC000 (MSIs)
40001	1	3/6	0x1000 (MVs)
44001	4001	3/6	0x2000 (AVs)
48001	8001	3	0x8000 (AOs)
49001	9001	3	0x9000 (AHOs)

A special range of addresses is used to identify the device: Modbus address 39001, register 9001, and function 4.

General Modbus Functions

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s)
DO1 Binary Output	1	1	1	0=Off	0=Off, 1=On	Terminals	All
DO2 Binary Output	2	2	1	0=Off	0=Off, 1=On	Terminals	All
DO3 Binary Output	3	3	1	0=Off	0=Off, 1=On	Terminals	All
DO4 Binary Output	4	4	1	0=Off	0=Off, 1=On	Terminals	All
DO5 Binary Output	5	5	1	0=Off	0=Off, 1=On	Terminals	All
DO6 Binary Output	6	6	1	0=Off	0=Off, 1=On	Terminals	All
DO7 Binary Output	7	7	1	0=Off	0=Off, 1=On	Terminals	All
DO8 Binary Output	8	8	1	0=Off	0=Off, 1=On	Terminals	All
DO9 Binary Output	9	9	1	0=Off	0=Off, 1=On	Terminals	All

1000+ Modbus Address Functions

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s)
UI1 Binary	10001	1	2	0=Activated	0=Activated, 1=Not activ.	Terminals	All
UI2 Binary	10002	2	2	0=Activated	0=Activated, 1=Not activ.	Terminals	All
UI3 Binary	10003	3	2	0=Activated	0=Activated, 1=Not activ.	Terminals	All
UI4 Binary	10004	4	2	0=Activated	0=Activated, 1=Not activ.	Terminals	All
UI5 Binary	10005	5	2	0=Activated	0=Activated, 1=Not activ.	Terminals	All
UI6 Binary	10006	6	2	0=Activated	0=Activated, 1=Not activ.	Terminals	All
UI7 Binary	10007	7	2	0=Activated	0=Activated, 1=Not activ.	Terminals	All
UI8 Binary	10008	8	2	0=Activated	0=Activated, 1=Not activ.	Terminals	All

3000+ Modbus Address Functions

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Room Temperature	30001	1	4	-40 °F (-40.0 °C)	-40 to 122 °F (-40 to 50 °C)	Environment	All
Outdoor Temperature	30002	2	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Environment	All
Supply Temperature	30003	3	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Environment	All
Room Humidity	30004	4	4	0 % RH	0 to 100 % RH	Environment	All
Changeover Temperature	30005	5	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Environment	3500
Wired Temperature Sensor	30006	6	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Environment	All
CO2 Level	30007	7	4	0 ppm	0 to 5000 ppm	Environment	All
Airflow Level	30008	8	4	0 cfm	0 to 20000 cfm	System Status	All
UI1 Voltage	30009	9	4	0 V	0 to 10 V	Terminals	All
UI2 Voltage	30010	10	4	0 V	0 to 10 V	Terminals	All
UI3 Voltage	30011	11	4	0 V	0 to 10 V	Terminals	All
UI4 Voltage	30012	12	4	0 V	0 to 10 V	Terminals	All
UI5 Voltage	30013	13	4	0 V	0 to 10 V	Terminals	All
UI6 Voltage	30014	14	4	0 V	0 to 10 V	Terminals	All
UI7 Voltage	30015	15	4	0 V	0 to 10 V	Terminals	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
UI8 Voltage	30016	16	4	0 V	0 to 10 V	Terminals	All
UI1 Temperature	30017	17	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI2 Temperature	30018	18	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI3 Temperature	30019	19	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI4 Temperature	30020	20	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI5 Temperature	30021	21	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI6 Temperature	30022	22	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI7 Temperature	30023	23	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI8 Temperature	30024	24	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI1 Raw Value	31001	1001	4	0	0 to 4095		All
UI2 Raw Value	31002	1002	4	0	0 to 4095		All
UI3 Raw Value	31003	1003	4	0	0 to 4095		All
UI4 Raw Value	31004	1004	4	0	0 to 4095		All
UI5 Raw Value	31005	1005	4	0	0 to 4095		All
UI6 Raw Value	31006	1006	4	0	0 to 4095		All
UI7 Raw Value	31007	1007	4	0	0 to 4095		All
UI8 Raw Value	31008	1008	4	0	0 to 4095		All
Light Sensor Level	31009	1009	4	0	0 to 30000		All
Relative Humidity Raw Value	31010	1010	4	0 % RH	0 to 100 % RH		All
Wireless Device 1 - Temperature	31026	1026	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 1	All (W)
Wireless Device 2 - Temperature	31027	1027	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 2	All (W)
Wireless Device 3 - Temperature	31028	1028	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 3	All (W)
Wireless Device 4 - Temperature	31029	1029	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 4	All (W)
Wireless Device 5 - Temperature	31030	1030	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 5	All (W)
Wireless Device 6 - Temperature	31031	1031	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 6	All (W)
Wireless Device 7 - Temperature	31032	1032	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 7	All (W)
Wireless Device 8 - Temperature	31033	1033	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 8	All (W)
Wireless Device 9 - Temperature	31034	1034	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 9	All (W)
Wireless Device 10 - Temperature	31035	1035	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 10	All (W)
Effective Setpoint	31040	1040	4	40 °F (4.5 °C)	40 to 100 °F (4.5 to 37.5 °C)	Operating Status	All
Paired ZigBee Devices	31041	1041	4	0	0 to 20	Network	All (W)
RH Temperature Raw Value	31042	1042	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)		All
WiFi Network Signal Strength Percentage	31058	1058	4	0 %	0 to 100 %		All (W)

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Wireless Device 11 - Temperature	31061	1061	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 11	All (W)
Wireless Device 12 - Temperature	31062	1062	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 12	All (W)
Wireless Device 13 - Temperature	31063	1063	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 13	All (W)
Wireless Device 14 - Temperature	31064	1064	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 14	All (W)
Wireless Device 15 - Temperature	31065	1065	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 15	All (W)
Wireless Device 16 - Temperature	31066	1066	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 16	All (W)
Wireless Device 17 - Temperature	31067	1067	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 17	All (W)
Wireless Device 18 - Temperature	31068	1068	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 18	All (W)
Wireless Device 19 - Temperature	31069	1069	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 19	All (W)
Wireless Device 20 - Temperature	31070	1070	4	-40 °F (-40.0 °C)	-40 to 185 °F (-40 to 85 °C)	Zigbee Device 20	All (W)
Wireless Device 1 - Humidity	31071	1071	4	0 % RH	0 to 100 % RH	Zigbee Device 1	All (W)
Wireless Device 2 - Humidity	31072	1072	4	0 % RH	0 to 100 % RH	Zigbee Device 2	All (W)
Wireless Device 3 - Humidity	31073	1073	4	0 % RH	0 to 100 % RH	Zigbee Device 3	All (W)
Wireless Device 4 - Humidity	31074	1074	4	0 % RH	0 to 100 % RH	Zigbee Device 4	All (W)
Wireless Device 5 - Humidity	31075	1075	4	0 % RH	0 to 100 % RH	Zigbee Device 5	All (W)
Wireless Device 6 - Humidity	31076	1076	4	0 % RH	0 to 100 % RH	Zigbee Device 6	All (W)
Wireless Device 7 - Humidity	31077	1077	4	0 % RH	0 to 100 % RH	Zigbee Device 7	All (W)
Wireless Device 8 - Humidity	31078	1078	4	0 % RH	0 to 100 % RH	Zigbee Device 8	All (W)
Wireless Device 9 - Humidity	31079	1079	4	0 % RH	0 to 100 % RH	Zigbee Device 9	All (W)
Wireless Device 10 - Humidity	31080	1080	4	0 % RH	0 to 100 % RH	Zigbee Device 10	All (W)
Wireless Device 11 - Humidity	31081	1081	4	0 % RH	0 to 100 % RH	Zigbee Device 11	All (W)
Wireless Device 12 - Humidity	31082	1082	4	0 % RH	0 to 100 % RH	Zigbee Device 12	All (W)
Wireless Device 13 - Humidity	31083	1083	4	0 % RH	0 to 100 % RH	Zigbee Device 13	All (W)
Wireless Device 14 - Humidity	31084	1084	4	0 % RH	0 to 100 % RH	Zigbee Device 14	All (W)
Wireless Device 15 - Humidity	31085	1085	4	0 % RH	0 to 100 % RH	Zigbee Device 15	All (W)
Wireless Device 16 - Humidity	31086	1086	4	0 % RH	0 to 100 % RH	Zigbee Device 16	All (W)
Wireless Device 17 - Humidity	31087	1087	4	0 % RH	0 to 100 % RH	Zigbee Device 17	All (W)
Wireless Device 18 - Humidity	31088	1088	4	0 % RH	0 to 100 % RH	Zigbee Device 18	All (W)
Wireless Device 19 - Humidity	31089	1089	4	0 % RH	0 to 100 % RH	Zigbee Device 19	All (W)
Wireless Device 20 - Humidity	31090	1090	4	0 % RH	0 to 100 % RH	Zigbee Device 20	All (W)
Wireless Device 1 - CO2	31091	1091	4	0 ppm	0 to 5000 ppm	Zigbee Device 1	All (W)
Wireless Device 2 - CO2	31092	1092	4	0 ppm	0 to 5000 ppm	Zigbee Device 2	All (W)
Wireless Device 3 - CO2	31093	1093	4	0 ppm	0 to 5000 ppm	Zigbee Device 3	All (W)

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Wireless Device 4 - CO2	31094	1094	4	0 ppm	0 to 5000 ppm	Zigbee Device 4	All (W)
Wireless Device 5 - CO2	31095	1095	4	0 ppm	0 to 5000 ppm	Zigbee Device 5	All (W)
Wireless Device 6 - CO2	31096	1096	4	0 ppm	0 to 5000 ppm	Zigbee Device 6	All (W)
Wireless Device 7 - CO2	31097	1097	4	0 ppm	0 to 5000 ppm	Zigbee Device 7	All (W)
Wireless Device 8 - CO2	31098	1098	4	0 ppm	0 to 5000 ppm	Zigbee Device 8	All (W)
Wireless Device 9 - CO2	31099	1099	4	0 ppm	0 to 5000 ppm	Zigbee Device 9	All (W)
Wireless Device 10 - CO2	31100	1100	4	0 ppm	0 to 5000 ppm	Zigbee Device 10	All (W)
Wireless Device 11 - CO2	31101	1101	4	0 ppm	0 to 5000 ppm	Zigbee Device 11	All (W)
Wireless Device 12 - CO2	31102	1102	4	0 ppm	0 to 5000 ppm	Zigbee Device 12	All (W)
Wireless Device 13 - CO2	31103	1103	4	0 ppm	0 to 5000 ppm	Zigbee Device 13	All (W)
Wireless Device 14 - CO2	31104	1104	4	0 ppm	0 to 5000 ppm	Zigbee Device 14	All (W)
Wireless Device 15 - CO2	31105	1105	4	0 ppm	0 to 5000 ppm	Zigbee Device 15	All (W)
Wireless Device 16 - CO2	31106	1106	4	0 ppm	0 to 5000 ppm	Zigbee Device 16	All (W)
Wireless Device 17 - CO2	31107	1107	4	0 ppm	0 to 5000 ppm	Zigbee Device 17	All (W)
Wireless Device 18 - CO2	31108	1108	4	0 ppm	0 to 5000 ppm	Zigbee Device 18	All (W)
Wireless Device 19 - CO2	31109	1109	4	0 ppm	0 to 5000 ppm	Zigbee Device 19	All (W)
Wireless Device 20 - CO2	31110	1110	4	0 ppm	0 to 5000 ppm	Zigbee Device 20	All (W)
Thermistor 1	31135	1135	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)		All
Thermistor 2	31136	1136	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)		All
Thermistor 3	31137	1137	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)		All
Thermistor 4	31138	1138	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)		All
Thermistor 5	31139	1139	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)		All
MCU Temperature	31140	1140	4	-40 °F (-40.0 °C)	-40 to 180 °F (-40 to 82 °C)		All
WiFi Channel	31529	1529	4	0	0 to 165		All (W)
Effective Occupancy	35001	5001	4	0=Occupied	0=Occupied, 1=Unoccupied, 2=Override, 3=Standby	Operating Status	All
ZigBee Network Status	35003	5003	4	0=Disabled	0=Disabled, 1=Initializing, 2=Upgrading, 3=Searching, 4=Joining, 5=Forming, 6=Resuming, 7=Online, 8=Failed	Network and Zigbee Network	All (W)
Weekday	35005	5005	4	0=Monday	0=Monday, 1=Tuesday, 2=Wed., 3=Thursday, 4=Friday, 5=Saturday, 6=Sunday		All
Program Status	35006	5006	4	0=Idle	0=Idle, 1=Loading, 2=Running, 3=Waiting, 4=Halted, 5=Unloading		All
Program Error	35007	5007	4	0=No error	0=No error, 1=Yield, 2=Runtime, 3=Syntax, 4=Memory, 5=Double err		All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Wireless Device 1 - Status	35008	5008	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 1	All (W)
Wireless Device 2 - Status	35009	5009	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 2	All (W)
Wireless Device 3 - Status	35010	5010	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 3	All (W)
Wireless Device 4 - Status	35011	5011	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 4	All (W)
Wireless Device 5 - Status	35012	5012	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 5	All (W)
Wireless Device 6 - Status	35013	5013	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 6	All (W)
Wireless Device 7 - Status	35014	5014	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 7	All (W)
Wireless Device 8 - Status	35015	5015	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 8	All (W)
Wireless Device 9 - Status	35016	5016	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 9	All (W)
Wireless Device 10 - Status	35017	5017	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 10	All (W)
Wireless Device 1 - Battery	35018	5018	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 1	All (W)
Wireless Device 2 - Battery	35019	5019	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 2	All (W)
Wireless Device 3 - Battery	35020	5020	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 3	All (W)
Wireless Device 4 - Battery	35021	5021	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 4	All (W)
Wireless Device 5 - Battery	35022	5022	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 5	All (W)
Wireless Device 6 - Battery	35023	5023	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 6	All (W)
Wireless Device 7 - Battery	35024	5024	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 7	All (W)
Wireless Device 8 - Battery	35025	5025	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 8	All (W)
Wireless Device 9 - Battery	35026	5026	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 9	All (W)
Wireless Device 10 - Battery	35027	5027	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 10	All (W)
Wireless Device 1 - Communication Status	35028	5028	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 1	All (W)
Wireless Device 2 - Communication Status	35029	5029	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 2	All (W)
Wireless Device 3 - Communication Status	35030	5030	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 3	All (W)
Wireless Device 4 - Communication Status	35031	5031	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 4	All (W)
Wireless Device 5 - Communication Status	35032	5032	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 5	All (W)

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Wireless Device 6 - Communication Status	35033	5033	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 6	All (W)
Wireless Device 7 - Communication Status	35034	5034	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 7	All (W)
Wireless Device 8 - Communication Status	35035	5035	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 8	All (W)
Wireless Device 9 - Communication Status	35036	5036	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 9	All (W)
Wireless Device 10 - Communication Status	35037	5037	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 10	All (W)
CO2 Effective Source	35044	5044	4	0=None	0=None, 1=Internal, 2=Error, 3=Wired, 4=Wireless Sensor 1, 5=Wireless Sensor 2, 6=Wireless Sensor 3, 7=Wireless Sensor 4, 8=Wireless Sensor 5, 9=Wireless Sensor 6, 10=Wireless Sensor 7, 11=Wireless Sensor 8, 12=Wireless Sensor 9, 13=Wireless Sensor 10, 14=Wireless Sensor 11, 15=Wireless Sensor 12, 16=Wireless Sensor 13, 17=Wireless Sensor 14, 18=Wireless Sensor 15, 19=Wireless Sensor 16, 20=Wireless Sensor 17, 21=Wireless Sensor 18, 22=Wireless Sensor 19, 23=Wireless Sensor 20	Environment	All
Effective temperature sensor	35048	5048	4	0=Wired	0=Wired, 1=Internal, 2=Wireless Sensor 1, 3=Wireless Sensor 2, 4=Wireless Sensor 3, 5=Wireless Sensor 4, 6=Wireless Sensor 5, 7=Wireless Sensor 6, 8=Wireless Sensor 7, 9=Wireless Sensor 8, 10=Wireless Sensor 9, 11=Wireless Sensor 10, 12=Wireless Sensor 11, 13=Wireless Sensor 12, 14=Wireless Sensor 13, 15=Wireless Sensor 14, 16=Wireless Sensor 15, 17=Wireless Sensor 16, 18=Wireless Sensor 17, 19=Wireless Sensor 18, 20=Wireless Sensor 19, 21=Wireless Sensor 20	Environment	All
Effective relative humidity sensor	35049	5049	4	0=None	0=None, 1=Internal, 2=Wireless Sensor 1, 3=Wireless Sensor 2, 4=Wireless Sensor 3, 5=Wireless Sensor 4, 6=Wireless Sensor 5, 7=Wireless Sensor 6, 8=Wireless Sensor 7, 9=Wireless Sensor 8, 10=Wireless Sensor 9, 11=Wireless Sensor 10, 12=Wireless Sensor 11, 13=Wireless Sensor 12, 14=Wireless Sensor 13, 15=Wireless Sensor 14, 16=Wireless Sensor 15, 17=Wireless Sensor 16, 18=Wireless Sensor 17, 19=Wireless Sensor 18, 20=Wireless Sensor 19, 21=Wireless Sensor 20	Environment	All
Effective System Mode	35050	5050	4	0=Cool	0=Cool, 1=Heat	Operating Status	All
IP Status	35051	5051	4	0=Offline	0=Offline, 1=Initializing, 2=Ready, 3=Bootting, 4=Resetting, 5=Fail, 6=Testing	BACnet	All
WiFi Network Status	35052	5052	4	0=Offline	0=Offline, 1=Associate, 2=Online, 3=Failure		All (W)
SMTP Server Status	35054	5054	4	0=Unknown	0=Unknown, 1=Disabled, 2=Offline, 3=Online	BACnet	All
Wireless Device 11 - Status	35057	5057	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 11	All (W)
Wireless Device 12 - Status	35058	5058	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 12	All (W)

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Wireless Device 13 - Status	35059	5059	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 13	All (W)
Wireless Device 14 - Status	35060	5060	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 14	All (W)
Wireless Device 15 - Status	35061	5061	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 15	All (W)
Wireless Device 16 - Status	35062	5062	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 16	All (W)
Wireless Device 17 - Status	35063	5063	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 17	All (W)
Wireless Device 18 - Status	35064	5064	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 18	All (W)
Wireless Device 19 - Status	35065	5065	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 19	All (W)
Wireless Device 20 - Status	35066	5066	4	0=None	0=None, 1=Closed, 2=Opened, 3=No motion, 4=Motion, 5=Normal, 6=Leak	Zigbee Device 20	All (W)
Wireless Device 11 - Battery	35067	5067	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 11	All (W)
Wireless Device 12 - Battery	35068	5068	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 12	All (W)
Wireless Device 13 - Battery	35069	5069	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 13	All (W)
Wireless Device 14 - Battery	35070	5070	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 14	All (W)
Wireless Device 15 - Battery	35071	5071	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 15	All (W)
Wireless Device 16 - Battery	35072	5072	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 16	All (W)
Wireless Device 17 - Battery	35073	5073	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 17	All (W)
Wireless Device 18 - Battery	35074	5074	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 18	All (W)
Wireless Device 19 - Battery	35075	5075	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 19	All (W)
Wireless Device 20 - Battery	35076	5076	4	0=None	0=None, 1=Normal, 2=Low	Zigbee Device 20	All (W)
Wireless Device 11 - Communication Status	35077	5077	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 11	All (W)
Wireless Device 12 - Communication Status	35078	5078	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 12	All (W)
Wireless Device 13 - Communication Status	35079	5079	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 13	All (W)
Wireless Device 14 - Communication Status	35080	5080	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 14	All (W)
Wireless Device 15 - Communication Status	35081	5081	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 15	All (W)
Wireless Device 16 - Communication Status	35082	5082	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 16	All (W)
Wireless Device 17 - Communication Status	35083	5083	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 17	All (W)
Wireless Device 18 - Communication Status	35084	5084	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 18	All (W)

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Wireless Device 19 - Communication Status	35085	5085	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 19	All (W)
Wireless Device 20 - Communication Status	35086	5086	4	0=Not paired	0=Not paired, 1=Online, 2=Invalid, 3=Offline	Zigbee Device 20	All (W)
Time source	35107	5107	4	0=None	0=None, 1=Local, 2=BACnet, 3=NTP, 4=Cloud		All
Fan Speed Status	35108	5108	4	0=Off	0=Off, 1=Low, 2=Medium, 3=High	Operating Status	All
WiFi Network Signal Strength	35109	5109	4	0=Poor	0=Poor, 1=Fair, 2=Good, 3=Excellent		All (W)
WiFi Band	35580	5580	4	0=None	0=None, 1=5 GHz, 2=2.4 GHz		All (W)

4000+ Modbus Address Functions

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Temperature Scale	40001	1	3-6	0=°C	0=°C, 1=°F		All
Display Language	40002	2	3-6	0=English	0=English, 1=French, 2=Spanish, 3=Chinese, 4=Russian, 5=Arabic, 6=Danish, 7=Italian, 8=German, 9=Indonesian, 10=Polish, 11=Swedish, 12=Norwegian, 13=Finnish, 14=Hungarian, 15=Turkish, 16=Dutch, 17=Czech, 18=Portuguese, 19=Bulgarian, 20=Slovak, 21=Japanese, 22=Hebrew	Preferences (Main)	All
Fan Mode	40003	3	3-6	2=Smart	0=On, 1=Auto, 2=Smart, 3=Low, 4=Medium, 5=High	Home	All
System Mode	40004	4	3-6	3=Heat	0=Off, 1=Auto, 2=Cool, 3=Heat	Home	All
Default Setpoints	40006	6	3-6	0=Disabled	0=Disabled, 1=Enabled	Setpoint Configuration	All
UI1 Configuration	40008	8	3-6	0=None	0=None, 1=Rem NSB, 2=Motion NO, 3=Motion NC, 4=Window, 5=Fan lock	Inputs	All
UI2 Configuration	40009	9	3-6	0=None	0=None, 1=Door dry, 2=Override, 3=Filter, 4=Service	Inputs	All
Dehumidification Enabled	40012	12	3-6	0=Disabled	0=Disabled, 1=Enabled	Dehumidifier	All
Fan Sequence	40016	16	3-6	4=Speeds-Smart	0=Auto, 1=Smart, 2=Auto-Smart, 3=Speeds-Auto, 4=Speeds-Smart, 5=Speeds-Auto-Smart	Fan	3500
Setpoint Function	40017	17	3-6	0=Dual SP	0=Dual SP, 1=Attach SP	Setpoint Configuration	All
Fan Control in Heating Mode	40019	19	3-6	0=Enabled	0=Enabled, 1=Forced Off-Auto/Smart, 2=Forced Off-All Modes	3500: Fan, 6500: Heat Pump and Rooftop	All
Sequence of Operation	40020	20	3-6	1=Heating Only	0=Cooling Only, 1=Heating Only, 2=Reheat Only, 3=Cooling/Heating, 4=Cooling/Reheat, 5=Heating/Reheat, 6=Cooling/Heating/Reheat	Fan Coil Unit	3500

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Occupancy Command	40022	22	3-6	1=Occupied	0=Loc occ., 1=Occupied, 2=Unocc.	Occupancy Configuration	All
Network Units	40023	23	3-6	1=Imperial	0=SI, 1=Imperial	BACnet or Modbus	All
Time Format	40027	27	3-6	0=12 Hour (AM-PM)	0=12 Hour (AM-PM), 1=24 Hour	Display	All
Standby Mode Configuration	40028	28	3-6	0=Absolute	0=Absolute, 1=Offset	Setpoint Configuration	All
Color Theme	40029	29	3-6	1=Dark	0=Light, 1=Dark, 2=Gray	Preferences (Main)	All
HMI Main Display Value	40030	30	3-6	1=Temperature	0=None, 1=Temperature	Display	All
Use Standby Screen	40032	32	3-6	0=Disabled	0=Disabled, 1=Custom Image	Display	All
Valve 1 Type	40034	34	3-6	1=Floating	0=On/Off, 1=Floating, 2=0-10V Direct Acting, 3=0-10V Reverse Acting	Fan Coil Unit	3500
Reheat Time Base	40035	35	3-6	0=On/Off (4 CPH)	0=On/Off (4 CPH), 1=PWM (10s Duty Cycle)	Fan Coil Unit	3500
Auxiliary Output	40036	36	3-6	0=Reheat (Normally Open)	0=Reheat (Normally Open), 1=Occupancy (Normally Open), 2=Occupancy (Normally Closed), 3=Aux Fan (Normally Open), 4=Aux Fan (Normally Closed), 5=Reheat (Normally Closed)	3500: Fan Coil Unit, 6500: Occupancy Configuration	All
UI3 Configuration	40039	39	3-6	0=None	0=None, 1=CO ₂ , 2=COC/NH, 3=COC/NC, 4=COS	Inputs	All
DO6-AO1 Configuration	40041	41	3-6	1=Binary RC	0=Analog, 1=Binary RC, 2=Binary RH	Terminals	All
DO7-AO2 Configuration	40042	42	3-6	1=Binary RC	0=Analog, 1=Binary RC	Terminals	All
DO8-AO3 Configuration	40043	43	3-6	1=Binary RC	0=Analog, 1=Binary RC	Terminals	All
DO9-AO4 Configuration	40044	44	3-6	1=Binary RC	0=Analog, 1=Binary RC	Terminals	All
Frost Protection	40045	45	3-6	0=Off	0=Off, 1=On	Heat Pump and Rooftop	6500
Mechanical Cooling Allowed	40050	50	3-6	0=Off	0=Off, 1=On	Economizer	6500
Enable Smart Recovery	40051	51	3-6	0=Off	0=Off, 1=On	Occupancy Configuration	All
Economizer Configuration	40053	53	3-6	0=Off	0=Off, 1=On	Economizer	6500
French	40056	56	3-6	1=Enabled	0=Disabled, 1=Enabled	Language Selection	All
Spanish	40057	57	3-6	1=Enabled	0=Disabled, 1=Enabled	Language Selection	All
Chinese	40058	58	3-6	1=Enabled	0=Disabled, 1=Enabled	Language Selection	All
Russian	40059	59	3-6	1=Enabled	0=Disabled, 1=Enabled	Language Selection	All
Month	40060	60	3	1=Feb.	0=Jan., 1=Feb., 2=Mar., 3=Apr., 4=May, 5=June, 6=July, 7=Aug., 8=Sept., 9=Oct., 10=Nov., 11=Dec.		All
Fan Delay	40061	61	3-6	1=On	0=Off, 1=On	Heat Pump and Rooftop	6500

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Wireless Device 1 - Function	40066	66	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 1	All (W)
Wireless Device 2 - Function	40067	67	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 2	All (W)
Wireless Device 3 - Function	40068	68	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 3	All (W)
Wireless Device 4 - Function	40069	69	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 4	All (W)
Wireless Device 5 - Function	40070	70	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 5	All (W)
Wireless Device 6 - Function	40071	71	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 6	All (W)
Wireless Device 7 - Function	40072	72	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 7	All (W)
Wireless Device 8 - Function	40073	73	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 8	All (W)
Wireless Device 9 - Function	40074	74	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 9	All (W)
Wireless Device 10 - Function	40075	75	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 10	All (W)
Occupancy Source	40077	77	3-6	0=Motion	0=Motion, 1=Schedule, 2=Motion during Schedule, 3=Motion or Schedule	Occupancy Configuration	All
Control Status	40079	79	3	0=Off	0=Off, 1=Cool, 2=Heat		All
Arabic	40083	83	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Czech	40085	85	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Danish	40086	86	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Dutch	40087	87	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Finnish	40088	88	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
German	40089	89	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Hungarian	40090	90	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Indonesian	40091	91	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Italian	40092	92	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Norwegian	40093	93	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Polish	40094	94	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Portuguese	40095	95	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Slovak	40096	96	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Swedish	40097	97	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Turkish	40098	98	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Comfort or economy mode	40099	99	3-6	0=Comfort	0=Comfort, 1=Economy	Heat Pump	6500
Reversing valve operation	40100	100	3-6	0=O	0=O, 1=B	Heat Pump	6500
Compressor - auxiliary interlock	40101	101	3-6	0=Off	0=Off, 1=On	Heat Pump	6500
Application	40102	102	3-6	2=FCU	0=Rooftop Unit, 1=Heat Pump, 2=FCU	HVAC Configuration	All
Modbus Baud Rate	40105	105	3-6	2=19200	0=4800, 1=9600, 2=19200, 3=38400, 4=57600	Modbus	All
Modbus Parity Bit	40106	106	3-6	2=Even	0=None, 1=Odd, 2=Even	Modbus	All
Schedule Type	40107	107	3-6	0=7 days	0=7 days, 1=5+2 days, 2=5+1+1 day	Occupancy Schedule	All
UI1 Type	40109	109	3	1=Binary	0=Therm., 1=Binary, 2=Voltage		All
UI2 Type	40110	110	3	1=Binary	0=Therm., 1=Binary, 2=Voltage		All
UI3 Type	40111	111	3	0=Therm.	0=Therm., 1=Binary, 2=Voltage		All
UI4 Type	40112	112	3	0=Therm.	0=Therm., 1=Binary, 2=Voltage		All
UI5 Type	40113	113	3	0=Therm.	0=Therm., 1=Binary, 2=Voltage		All
UI6 Type	40114	114	3	0=Therm.	0=Therm., 1=Binary, 2=Voltage		All
UI7 Type	40115	115	3	2=Voltage	0=Therm., 1=Binary, 2=Voltage		All
UI8 Type	40116	116	3	2=Voltage	0=Therm., 1=Binary, 2=Voltage		All
CO2 Autocalibration	40119	119	3-6	1=Enabled	0=Disabled, 1=Enabled		All
Relative humidity sensor	40121	121	3-6	1=Internal	0=None, 1=Internal, 2=Wireless Sensor 1, 3=Wireless Sensor 2, 4=Wireless Sensor 3, 5=Wireless Sensor 4, 6=Wireless Sensor 5, 7=Wireless Sensor 6, 8=Wireless Sensor 7, 9=Wireless Sensor 8, 10=Wireless Sensor 9, 11=Wireless Sensor 10, 12=Wireless Sensor 11, 13=Wireless Sensor 12, 14=Wireless Sensor 13, 15=Wireless Sensor 14, 16=Wireless Sensor 15, 17=Wireless Sensor 16, 18=Wireless Sensor 17, 19=Wireless Sensor 18, 20=Wireless Sensor 19, 21=Wireless Sensor 20	Inputs	All
Room Temperature Sensor	40122	122	3-6	0=Wired	0=Wired, 1=Internal, 2=Wireless Sensor 1, 3=Wireless Sensor 2, 4=Wireless Sensor 3, 5=Wireless Sensor 4, 6=Wireless Sensor 5, 7=Wireless Sensor 6, 8=Wireless Sensor 7, 9=Wireless Sensor 8, 10=Wireless Sensor 9, 11=Wireless Sensor 10, 12=Wireless Sensor 11, 13=Wireless Sensor 12, 14=Wireless Sensor 13, 15=Wireless Sensor 14, 16=Wireless Sensor 15, 17=Wireless Sensor 16, 18=Wireless Sensor 17, 19=Wireless Sensor 18, 20=Wireless Sensor 19, 21=Wireless Sensor 20	Inputs	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Temperature Alarm Enabled	40123	123	3-6	0=Off	0=Off, 1=On		All
ADR Permission	40124	124	3-6	0=Disabled	0=Disabled, 1=Enabled	ADR	All
Fan Type	40128	128	3-6	2=3 Speed (L-M-H)	0=1 Speed (H), 1=2 Speed (L-H), 2=3 Speed (L-M-H), 3=ECM	Fan	3500
Japanese	40129	129	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Hebrew	40130	130	3-6	0=Disabled	0=Disabled, 1=Enabled	Language Selection	All
Valve 2 Type	40133	133	3-6	1=Floating	0=On/Off, 1=Floating, 2=0-10V Direct Acting, 3=0-10V Reverse Acting	Fan Coil Unit	3500
Wireless Device 11 - Function	40138	138	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 11	All (W)
Wireless Device 12 - Function	40139	139	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 12	All (W)
Wireless Device 13 - Function	40140	140	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 13	All (W)
Wireless Device 14 - Function	40141	141	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 14	All (W)
Wireless Device 15 - Function	40142	142	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 15	All (W)
Wireless Device 16 - Function	40143	143	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 16	All (W)
Wireless Device 17 - Function	40144	144	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 17	All (W)
Wireless Device 18 - Function	40145	145	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 18	All (W)
Wireless Device 19 - Function	40146	146	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 19	All (W)
Wireless Device 20 - Function	40147	147	3-6	0=None	0=None, 1=Window, 2=Door, 3=Motion, 4=Env. data, 5=Remove, 6=Water, 7=Refrig., 8=Freezer	Zigbee Device 20	All (W)
CO2 source	40148	148	3-6	1=Local	0=None, 1=Local, 2=Wireless Sensor 1, 3=Wireless Sensor 2, 4=Wireless Sensor 3, 5=Wireless Sensor 4, 6=Wireless Sensor 5, 7=Wireless Sensor 6, 8=Wireless Sensor 7, 9=Wireless Sensor 8, 10=Wireless Sensor 9, 11=Wireless Sensor 10, 12=Wireless Sensor 11, 13=Wireless Sensor 12, 14=Wireless Sensor 13, 15=Wireless Sensor 14, 16=Wireless Sensor 15, 17=Wireless Sensor 16, 18=Wireless Sensor 17, 19=Wireless Sensor 18, 20=Wireless Sensor 19, 21=Wireless Sensor 20	Inputs	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Enable Static IP	40153	153	3	0=Dynamic	0=Dynamic, 1=Static	Hidden Network and Network Name	All
Enable WIFI	40154	154	3	0=Disabled	0=Disabled, 1=Enabled	Network	All (W)
Hidden WIFI	40155	155	3	0=Disabled	0=Disabled, 1=Enabled		All (W)
Notification Type	40156	156	3-6	0=Disabled	0=Disabled, 1=Critical, 2=Warning, 3=Ok, 4=Informative	Home Notifications	All
Notification Display Type	40157	157	3-6	2=All	0=Disabled, 1=Custom Only, 2=All	Display	All
Occupancy Sensor	40158	158	3-6	3=High	0=Off, 1=Low, 2=Medium, 3=High	Occupancy Configuration	All
Proximity Sensor	40159	159	3-6	3=High	0=Off, 1=Low, 2=Medium, 3=High		All (W)
Custom Standby Text Color	40160	160	3-6	0=White	0=White, 1=Black	Standby Screen	All
HMI Setpoint	40162	162	3-6	1=Slider	0=None, 1=Slider, 2=Buttons (Attached SP Only)	Display	All
Halo Mode	40163	163	3-6	1=Heat/Cool	0=Disabled, 1=Heat/Cool	Halo	All (W)
Button 1	40164	164	3-6	1=System Mode	0=Disabled, 1=System Mode, 2=Fan Mode, 3=AI Eco Mode, 4=Do Not Disturb, 5=Make Up Room	Display	All
Button 2	40165	165	3-6	2=Fan Mode	0=Disabled, 1=System Mode, 2=Fan Mode, 3=AI Eco Mode, 4=Do Not Disturb, 5=Make Up Room	Display	All
Button 3	40166	166	3-6	3=AI Eco Mode	0=Disabled, 1=System Mode, 2=Fan Mode, 3=AI Eco Mode, 4=Do Not Disturb, 5=Make Up Room	Display	All
Button 4	40167	167	3-6	0=Disabled	0=Disabled, 1=System Mode, 2=Fan Mode, 3=AI Eco Mode, 4=Do Not Disturb, 5=Make Up Room	Display	All
Info Item 1	40168	168	3-6	2=Humidity	0=Disabled, 1=Outdoor Air Temperature, 2=Humidity, 3=CO2 Level	Display	All
Info Item 2	40169	169	3-6	3=CO2 Level	0=Disabled, 1=Outdoor Air Temperature, 2=Humidity, 3=CO2 Level	Display	All
Info Item 3	40170	170	3-6	1=Outdoor Air Temperature	0=Disabled, 1=Outdoor Air Temperature, 2=Humidity, 3=CO2 Level	Display	All
WiFi Security Type	40172	172	3	5=UNKNOWN SECURITY	0=WPA2 AES PSK, 1=WPA2 TKIP PSK, 2=WPA2 MIXED PSK, 3=WPA3 SAE, 4=WPA3 WPA2 PSK, 5=UNKNOWN SECURITY	Hidden Network	All (W)
BBMD Status	40196	196	3	0=Offline	0=Offline, 1=DNS Lookup, 2=DNS Fail, 3=Registering, 4=Registered, 5=Registration Failed	BACnet	All
Enable AI Eco Setpoint Control	40197	197	3-6	0=Disabled	0=Disabled, 1=Enabled	AI Eco Configuration	All
AI Eco Mode	40198	198	3-6	0=Disabled	0=Disabled, 1=Enabled	Home	All
AI Eco Optimal Setpoint	40199	199	3-6	0=Disabled	0=Disabled, 1=Enabled	AI Eco Configuration	All
AI Eco Optimal Start	40200	200	3-6	0=Disabled	0=Disabled, 1=Enabled	AI Eco Configuration	All
AI Eco Optimal Stop	40201	201	3-6	0=Disabled	0=Disabled, 1=Enabled	AI Eco Configuration	All
AI Eco Verbose Logging	40202	202	3-6	0=Disabled	0=Disabled, 1=Enabled	AI Eco Configuration	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Do Not Disturb	40204	204	3-6	0=Off	0=Off, 1=On	Home	All
Make Up Room	40205	205	3-6	0=Off	0=Off, 1=On	Home	All
Occupied Cool Setpoint	44001	4001	3-6	75 °F (24.0 °C)	54 to 100 °F (12.5 to 37.5 °C)	Setpoints	All
Occupied Heat Setpoint	44002	4002	3-6	72 °F (22.5 °C)	40 to 90 °F (4.5 to 32 °C)	Setpoints	All
Unoccupied Cool Setpoint	44003	4003	3-6	80 °F (26.5 °C)	54 to 100 °F (12.5 to 37.5 °C)	Setpoints	All
Unoccupied Heat Setpoint	44004	4004	3-6	62 °F (16.5 °C)	40 to 90 °F (4.5 to 32 °C)	Setpoints	All
Maximum Heating Setpoint Limit	44005	4005	3-6	90 °F (32.0 °C)	40 to 90 °F (4.5 to 32 °C)	Setpoint Configuration	All
Minimum Cooling Setpoint Limit	44006	4006	3-6	54 °F (12.5 °C)	54 to 100 °F (12.5 to 37.5 °C)	Setpoint Configuration	All
Calibrate Room Temperature Sensor	44007	4007	3-6	0 Δ°F (0.0 Δ°C)	-5 to 5 Δ°F (-2.5 to 2.5 Δ°C)	Inputs	All
Standby Cool Setpoint	44009	4009	3-6	78 °F (25.5 °C)	54 to 100 °F (12.5 to 37.5 °C)	Setpoints	All
Standby Heat Setpoint	44010	4010	3-6	69 °F (20.5 °C)	40 to 90 °F (4.5 to 32 °C)	Setpoints	All
Dehumidification Max Cooling Limit	44011	4011	3-6	100 %	20 to 100 %	Dehumidifier	3500
Dehumidification Setpoint	44012	4012	3-6	50 % RH	30 to 95 % RH	Dehumidifier and Setpoints	All
Calibrate Humidity Sensor	44013	4013	3-6	0 % RH	-15 to 15 % RH	Inputs	All
Dehumidification Hysteresis	44015	4015	3-6	5 % RH	2 to 20 % RH	Dehumidifier	All
COM Address	44018	4018	3-6	254	0 to 254	BACnet or Modbus	All
Model Number	44019	4019	3	31	20 to 63		All
Minimum Deadband	44020	4020	3-6	3 Δ°F (1.5 Δ°C)	2 to 5 Δ°F (1 to 2.5 Δ°C)	Setpoint Configuration	All
Heating CPH	44021	4021	3-6	4	3 to 8	3500: Fan Coil Unit, 6500: Heat Pump and Rooftop	All
Cooling CPH	44022	4022	3-6	4	3500: 3 to 8, 6500: 3 to 4	3500: Fan Coil Unit, 6500: Heat Pump and Rooftop	All
Number of Pipes	44025	4025	3-6	2	0 (Reheat Only), 2 or 4	Fan Coil Unit	3500
Unoccupied Time	44026	4026	3-6	0 h	0 to 24 h	Occupancy Configuration	All
Temporary Occupancy Time	44027	4027	3-6	2 h	0 to 24 h	Occupancy Configuration	All
Standby Time	44028	4028	3-6	0.5 h	0.5 to 24 h	Occupancy Configuration	All
Proportional Band	44029	4029	3-6	3 Δ°F (2.0 Δ°C)	3 to 10 Δ°F (2 to 5.5 Δ°C)	3500: Fan Coil Unit, 6500: Heat Pump and Rooftop	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Cooling Demand Limit	44030	4030	3-6	100 %	0 to 100 %	System Status	All
Heating Demand Limit	44031	4031	3-6	100 %	0 to 100 %	System Status	All
Low Backlight	44033	4033	3-6	60 %	0 to 100 %	Display	All
Night Backlight	44034	4034	3-6	5 %	0 to 100 %	Display	All
Purge Sample Period	44036	4036	3-6	2 h	0 to 4 h	Fan Coil Unit	3500
Purge Open	44037	4037	3-6	2 m	1 to 3 m	Fan Coil Unit	3500
Standby Temperature Differential	44038	4038	3-6	4 Δ°F (2.0 Δ°C)	1 to 5 Δ°F (1 to 2.5 Δ°C)	Setpoint Configuration	All
Default Cooling Setpoint	44042	4042	3-6	75 °F (24.0 °C)	54 to 100 °F (12.5 to 37.5 °C)	Setpoints	All
Default Heating Setpoint	44043	4043	3-6	72.5 °F (22.5 °C)	40 to 90 °F (4.5 to 32 °C)	Setpoints	All
Floating Actuator Time	44045	4045	3-6	1.5 m	0.5 to 9 m	Fan Coil Unit	3500
Anti Short Cycle Time	44047	4047	3-6	2 m	0 to 5 m	Heat Pump and Rooftop	6500
Number of Heating Stages	44048	4048	3-6	2	0 to 2	Heat Pump and Rooftop	6500
Number of Cooling Stages	44049	4049	3-6	2	1 to 2	Heat Pump and Rooftop	6500
Power-up Delay	44050	4050	3-6	10 s	10 to 120 s	3500: Fan Coil Unit, 6500: Heat Pump and Rooftop	All
Calibrate Outside Temperature Sensor	44051	4051	3-6	0 Δ°F (0.0 Δ°C)	-5 to 5 Δ°F (-2.5 to 2.5 Δ°C)	Inputs	All
Heating Lockout from Outside Air Temperature	44052	4052	3-6	120 °F (48.5 °C)	-15 to 120 °F (-26 to 48.5 °C)	Heat Pump and Rooftop	6500
Cooling Lockout	44053	4053	3-6	-40 °F (-40.0 °C)	-40 to 95 °F (-40 to 35 °C)	Heat Pump and Rooftop	6500
Supply Air Temperature Setpoint	44054	4054	3-6	55 °F (13.0 °C)	50 to 90 °F (10 to 32 °C)	Economizer	6500
Changeover Setpoint	44055	4055	3-6	55 °F (13.0 °C)	14 to 70 °F (-10 to 21 °C)	Economizer	6500
Economizer Minimum Position	44056	4056	3-6	0 %	0 to 99 %	Economizer	6500
Economizer Maximum Position	44057	4057	3-6	100 %	1 to 100 %	Economizer	6500
Occupied 1	44059	4059	3	1440	0 to 1440		All
Unoccupied 1	44060	4060	3	1440	0 to 1440		All
Occupied 2	44061	4061	3	1440	0 to 1440		All
Unoccupied 2	44062	4062	3	1440	0 to 1440		All
Occupied 3	44063	4063	3	1440	0 to 1440		All
Unoccupied 3	44064	4064	3	1440	0 to 1440		All
Occupied 1	44065	4065	3	1440	0 to 1440		All
Unoccupied 1	44066	4066	3	1440	0 to 1440		All
Occupied 2	44067	4067	3	1440	0 to 1440		All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Unoccupied 2	44068	4068	3	1440	0 to 1440		All
Occupied 3	44069	4069	3	1440	0 to 1440		All
Unoccupied 3	44070	4070	3	1440	0 to 1440		All
Occupied 1	44071	4071	3	1440	0 to 1440		All
Unoccupied 1	44072	4072	3	1440	0 to 1440		All
Occupied 2	44073	4073	3	1440	0 to 1440		All
Unoccupied 2	44074	4074	3	1440	0 to 1440		All
Occupied 3	44075	4075	3	1440	0 to 1440		All
Unoccupied 3	44076	4076	3	1440	0 to 1440		All
Occupied 1	44077	4077	3	1440	0 to 1440		All
Unoccupied 1	44078	4078	3	1440	0 to 1440		All
Occupied 2	44079	4079	3	1440	0 to 1440		All
Unoccupied 2	44080	4080	3	1440	0 to 1440		All
Occupied 3	44081	4081	3	1440	0 to 1440		All
Unoccupied 3	44082	4082	3	1440	0 to 1440		All
Occupied 1	44083	4083	3	1440	0 to 1440		All
Unoccupied 1	44084	4084	3	1440	0 to 1440		All
Occupied 2	44085	4085	3	1440	0 to 1440		All
Unoccupied 2	44086	4086	3	1440	0 to 1440		All
Occupied 3	44087	4087	3	1440	0 to 1440		All
Unoccupied 3	44088	4088	3	1440	0 to 1440		All
Occupied 1	44089	4089	3	1440	0 to 1440		All
Unoccupied 1	44090	4090	3	1440	0 to 1440		All
Occupied 2	44091	4091	3	1440	0 to 1440		All
Unoccupied 2	44092	4092	3	1440	0 to 1440		All
Occupied 3	44093	4093	3	1440	0 to 1440		All
Unoccupied 3	44094	4094	3	1440	0 to 1440		All
Occupied 1	44095	4095	3	1440	0 to 1440		All
Unoccupied 1	44096	4096	3	1440	0 to 1440		All
Occupied 2	44097	4097	3	1440	0 to 1440		All
Unoccupied 2	44098	4098	3	1440	0 to 1440		All
Occupied 3	44099	4099	3	1440	0 to 1440		All
Unoccupied 3	44100	4100	3	1440	0 to 1440		All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Fresh Air Range Upper Limit	44101	4101	3-6	0 cfm	0 to 20000 cfm	IAQ	6500
Minimum Supply Heat	44102	4102	3-6	64 °F (18.0 °C)	50 to 72 °F (10 to 22 °C)	Heat Pump and Rooftop	6500
Supply Heat Lockout	44103	4103	3-6	32 °F (0.0 °C)	-15 to 120 °F (-26 to 48.5 °C)	Heat Pump and Rooftop	6500
Supply Temperature High Limit	44104	4104	3-6	120 °F (49.0 °C)	70 to 150 °F (21.5 to 65.5 °C)	Heat Pump and Rooftop	6500
Supply Temperature Low Limit	44105	4105	3-6	45 °F (7.0 °C)	35 to 65 °F (2 to 18 °C)	Heat Pump and Rooftop	6500
Minimum Fresh Air	44106	4106	3-6	0 cfm	0 to 20000 cfm	IAQ	6500
Maximum Fresh Air	44107	4107	3-6	0 cfm	0 to 20000 cfm	IAQ	6500
Minimum CO2	44108	4108	3-6	800 ppm	0 to 4800 ppm	IAQ	6500
Maximum CO2	44109	4109	3-6	1200 ppm	200 to 5000 ppm	IAQ	6500
Time	44110	4110	3	0	0 to 1439		All
Year	44111	4111	3	2014	2000 to 2090		All
Day	44112	4112	3	1	1 to 31		All
Lua Parameter A (AV25)	44117	4117	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter B (AV26)	44118	4118	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter C (AV27)	44119	4119	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter D (AV28)	44120	4120	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter E (AV29)	44121	4121	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter F (AV30)	44122	4122	3-6	0	-32768 to 32767	Lua Variables	All
Hardware Revision	44123	4123	3	41	40 to 41		All
High balance point	44132	4132	3-6	90 °F (32.0 °C)	34 to 90 °F (1.5 to 32 °C)	Heat Pump	6500
Low balance point	44133	4133	3-6	-12 °F (-24.5 °C)	-40 to 30 °F (-40 to -1.5 °C)	Heat Pump	6500
Ambient Low Temperature Threshold	44143	4143	3-6	40 °F (4.5 °C)	32 to 50 °F (0 to 10 °C)		All
Temperature Alarm Hysteresis	44144	4144	3-6	2 Δ°F (1.0 Δ°C)	0 to 10 Δ°F (0 to 5.5 Δ°C)		All
ADR Setpoint Offset - Load Shedding	44145	4145	3-6	4 Δ°F (2.0 Δ°C)	1 to 10 Δ°F (1 to 5.5 Δ°C)	ADR	All
Lua Parameter G (AV31)	44146	4146	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter H (AV32)	44147	4147	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter I (AV33)	44148	4148	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter J (AV34)	44149	4149	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter K (AV35)	44150	4150	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter L (AV36)	44151	4151	3-6	0	-32768 to 32767	Lua Variables	All
ECM Fan Low Voltage	44152	4152	3-6	2.2 V	0 to 9.8 V	Fan	3500
ECM Fan Medium Voltage	44153	4153	3-6	6 V	0.1 to 9.9 V	Fan	3500
ECM Fan High Voltage	44154	4154	3-6	8.6 V	0.2 to 10 V	Fan	3500

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Ambient High Temperature Threshold	44175	4175	3-6	86 °F (30.0 °C)	32 to 122 °F (0 to 50 °C)		All
Refrigeration High Temperature Threshold	44176	4176	3-6	40 °F (4.5 °C)	32 to 60 °F (0 to 15.5 °C)		All
Refrigeration Low Temperature Threshold	44177	4177	3-6	32 °F (0.0 °C)	32 to 50 °F (0 to 10 °C)		All
Freezer High Temperature Threshold	44178	4178	3-6	-40 °F (-40.0 °C)	-40 to 32 °F (-40 to 0 °C)		All
Minimum Occupied Heating Setpoint Limit	44186	4186	3-6	40 °F (4.5 °C)	40 to 90 °F (4.5 to 32 °C)	Setpoint Configuration	All
Maximum Occupied Cooling Setpoint Limit	44187	4187	3-6	100 °F (37.5 °C)	54 to 100 °F (12.5 to 37.5 °C)	Setpoint Configuration	All
Inactivity Time	44188	4188	3-6	3 m	1 to 10 m	Display	All
Backlight Brightness	44189	4189	3-6	60 %	0 to 100 %	Display	All
Halo Red Color	44190	4190	3-6	0	0 to 255		All (W)
Halo Green Color	44191	4191	3-6	0	0 to 255		All (W)
Halo Blue Color	44192	4192	3-6	0	0 to 255		All (W)
ADR Setpoint Offset - Pricing	44193	4193	3-6	4 Δ°F (2.0 Δ°C)	1 to 10 Δ°F (1 to 5.5 Δ°C)	ADR	All
Temperature compensation matrix	44194	4194	3-6	-100 °F (-73.5 °C)	-100 to 100 °F (-73 to 37.5 °C)		All
Halo Maximum Brightness	44199	4199	3-6	100 %	0 to 100 %	Halo	All (W)
Timezone Offset	44201	4201	3-6	0 m	-1440 to 1440 m		All
Light 1 Status	44202	4202	3-6	0	0 to 201	Lights (Main)	All
Light 2 Status	44203	4203	3-6	0	0 to 201	Lights (Main)	All
Light 3 Status	44204	4204	3-6	0	0 to 201	Lights (Main)	All
Light 4 Status	44205	4205	3-6	0	0 to 201	Lights (Main)	All
Light 5 Status	44206	4206	3-6	0	0 to 201	Lights (Main)	All
Light 6 Status	44207	4207	3-6	0	0 to 201	Lights (Main)	All
Light 7 Status	44208	4208	3-6	0	0 to 201	Lights (Main)	All
Light 8 Status	44209	4209	3-6	0	0 to 201	Lights (Main)	All
Blind 1 Status	44210	4210	3-6	0	0 to 201	Blinds (Main)	All
Blind 2 Status	44211	4211	3-6	0	0 to 201	Blinds (Main)	All
Blind 3 Status	44212	4212	3-6	0	0 to 201	Blinds (Main)	All
Blind 4 Status	44213	4213	3-6	0	0 to 201	Blinds (Main)	All
Blind 5 Status	44214	4214	3-6	0	0 to 201	Blinds (Main)	All
Blind 6 Status	44215	4215	3-6	0	0 to 201	Blinds (Main)	All
Blind 7 Status	44216	4216	3-6	0	0 to 201	Blinds (Main)	All
Blind 8 Status	44217	4217	3-6	0	0 to 201	Blinds (Main)	All
Light 1 Cmd	44218	4218	3-6	0	0 to 201	Lights (Main)	All
Light 2 Cmd	44219	4219	3-6	0	0 to 201	Lights (Main)	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Light 3 Cmd	44220	4220	3-6	0	0 to 201	Lights (Main)	All
Light 4 Cmd	44221	4221	3-6	0	0 to 201	Lights (Main)	All
Light 5 Cmd	44222	4222	3-6	0	0 to 201	Lights (Main)	All
Light 6 Cmd	44223	4223	3-6	0	0 to 201	Lights (Main)	All
Light 7 Cmd	44224	4224	3-6	0	0 to 201	Lights (Main)	All
Light 8 Cmd	44225	4225	3-6	0	0 to 201	Lights (Main)	All
Blind 1 Cmd	44226	4226	3-6	0	0 to 201	Blinds (Main)	All
Blind 2 Cmd	44227	4227	3-6	0	0 to 201	Blinds (Main)	All
Blind 3 Cmd	44228	4228	3-6	0	0 to 201	Blinds (Main)	All
Blind 4 Cmd	44229	4229	3-6	0	0 to 201	Blinds (Main)	All
Blind 5 Cmd	44230	4230	3-6	0	0 to 201	Blinds (Main)	All
Blind 6 Cmd	44231	4231	3-6	0	0 to 201	Blinds (Main)	All
Blind 7 Cmd	44232	4232	3-6	0	0 to 201	Blinds (Main)	All
Blind 8 Cmd	44233	4233	3-6	0	0 to 201	Blinds (Main)	All
Light 1 Cfg	44234	4234	3-6	0=Disabled	0=Non dimmable, Disabled; 1=Non dimmable, Enabled; 2=Dimmable, Disabled; 3=Dimmable, Enabled	Light Configuration	All
Light 2 Cfg	44235	4235	3-6	0=Disabled	0=Non dimmable, Disabled; 1=Non dimmable, Enabled; 2=Dimmable, Disabled; 3=Dimmable, Enabled	Light Configuration	All
Light 3 Cfg	44236	4236	3-6	0=Disabled	0=Non dimmable, Disabled; 1=Non dimmable, Enabled; 2=Dimmable, Disabled; 3=Dimmable, Enabled	Light Configuration	All
Light 4 Cfg	44237	4237	3-6	0=Disabled	0=Non dimmable, Disabled; 1=Non dimmable, Enabled; 2=Dimmable, Disabled; 3=Dimmable, Enabled	Light Configuration	All
Light 5 Cfg	44238	4238	3-6	0=Disabled	0=Non dimmable, Disabled; 1=Non dimmable, Enabled; 2=Dimmable, Disabled; 3=Dimmable, Enabled	Light Configuration	All
Light 6 Cfg	44239	4239	3-6	0=Disabled	0=Non dimmable, Disabled; 1=Non dimmable, Enabled; 2=Dimmable, Disabled; 3=Dimmable, Enabled	Light Configuration	All
Light 7 Cfg	44240	4240	3-6	0=Disabled	0=Non dimmable, Disabled; 1=Non dimmable, Enabled; 2=Dimmable, Disabled; 3=Dimmable, Enabled	Light Configuration	All
Light 8 Cfg	44241	4241	3-6	0=Disabled	0=Non dimmable, Disabled; 1=Non dimmable, Enabled; 2=Dimmable, Disabled; 3=Dimmable, Enabled	Light Configuration	All
Blind 1 Cfg	44242	4242	3-6	0=Disabled	0=Disabled, 1=Enabled	Blind Configuration	All
Blind 2 Cfg	44243	4243	3-6	0=Disabled	0=Disabled, 1=Enabled	Blind Configuration	All
Blind 3 Cfg	44244	4244	3-6	0=Disabled	0=Disabled, 1=Enabled	Blind Configuration	All
Blind 4 Cfg	44245	4245	3-6	0=Disabled	0=Disabled, 1=Enabled	Blind Configuration	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Blind 5 Cfg	44246	4246	3-6	0=Disabled	0=Disabled, 1=Enabled	Blind Configuration	All
Blind 6 Cfg	44247	4247	3-6	0=Disabled	0=Disabled, 1=Enabled	Blind Configuration	All
Blind 7 Cfg	44248	4248	3-6	0=Disabled	0=Disabled, 1=Enabled	Blind Configuration	All
Blind 8 Cfg	44249	4249	3-6	0=Disabled	0=Disabled, 1=Enabled	Blind Configuration	All
Lua Parameter M (AV332)	44250	4250	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter N (AV333)	44251	4251	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter O (AV334)	44252	4252	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter P (AV335)	44253	4253	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter Q (AV336)	44254	4254	3-6	0	-32768 to 32767	Lua Variables	All
Lua Parameter R (AV337)	44255	4255	3-6	0	-32768 to 32767	Lua Variables	All
Lua Scratchpad 1	44256	4256	3-6	0	-32768 to 32767		All
Lua Scratchpad 2	44257	4257	3-6	0	-32768 to 32767		All
Lua Scratchpad 3	44258	4258	3-6	0	-32768 to 32767		All
Lua Scratchpad 4	44259	4259	3-6	0	-32768 to 32767		All
Lua Scratchpad 5	44260	4260	3-6	0	-32768 to 32767		All
Lua Scratchpad 6	44261	4261	3-6	0	-32768 to 32767		All
Lua Scratchpad 7	44262	4262	3-6	0	-32768 to 32767		All
Lua Scratchpad 8	44263	4263	3-6	0	-32768 to 32767		All
Lua Scratchpad 9	44264	4264	3-6	0	-32768 to 32767		All
Lua Scratchpad 10	44265	4265	3-6	0	-32768 to 32767		All
Lua Scratchpad 11	44266	4266	3-6	0	-32768 to 32767		All
Lua Scratchpad 12	44267	4267	3-6	0	-32768 to 32767		All
Lua Scratchpad 13	44268	4268	3-6	0	-32768 to 32767		All
Lua Scratchpad 14	44269	4269	3-6	0	-32768 to 32767		All
Lua Scratchpad 15	44270	4270	3-6	0	-32768 to 32767		All
Lua Scratchpad 16	44271	4271	3-6	0	-32768 to 32767		All
Lua Scratchpad 17	44272	4272	3-6	0	-32768 to 32767		All
Lua Scratchpad 18	44273	4273	3-6	0	-32768 to 32767		All
PI Heating Demand	48001	8001	3	0 %	0 to 100 %	System Status	All
PI Cooling Demand	48002	8002	3	0 %	0 to 100 %	System Status	All
Economizer Demand	48004	8004	3	0 %	0 to 100 %	System Status	6500
Analog Output Heat Demand	48005	8005	3	0 %	0 to 100 %	Terminals	6500
AO1 Voltage	49001	9001	3	0 V	0 to 10 V	Terminals	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
AO2 Voltage	49002	9002	3	0 V	0 to 10 V	Terminals	All
AO3 Voltage	49003	9003	3	0 V	0 to 10 V	Terminals	All
AO4 Voltage	49004	9004	3	0 V	0 to 10 V	Terminals	All

5000+ Modbus Address Functions

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Filter Alarm	5001	5001	1	0=Off	0=Off, 1=On	Alarms	All
Service Alarm	5002	5002	1	0=Off	0=Off, 1=On	Alarms	All
Window Alarm	5003	5003	1	0=Off	0=Off, 1=On	Alarms	All
PIR Local Motion	5004	5004	1	0=No motion	0=No motion, 1=Motion	Operating Status	All
Dehumidification Status	5005	5005	1	0=Off	0=Off, 1=On	Dehumidifier and System Status	All
Low Battery Alarm	5006	5006	1	0=Off	0=Off, 1=On	Alarms	All (W)
Window Contact Installed	5007	5007	1	0=No	0=No, 1=Yes	Environment and Operating Status	All
Window Contact Status	5008	5008	1	0=Closed	0=Closed, 1=Opened	Zigbee Device #	All
Door Contact Installed	5009	5009	1	0=No	0=No, 1=Yes	Environment and Operating Status	All
Door Contact Status	5010	5010	1	0=Closed	0=Closed, 1=Opened	Zigbee Device #	All
Fan Lock Alarm	5013	5013	1	0=Off	0=Off, 1=On	Alarms	6500
Smart Recovery Status	5014	5014	1	0=Off	0=Off, 1=On	System Status	All
Exception Status	5015	5015	1	0=Off	0=Off, 1=On		All
CO2 Alarm	5016	5016	1	0=Off	0=Off, 1=On	Alarms	6500
Low Fresh Air Alarm	5017	5017	1	0=Off	0=Off, 1=On	Alarms	6500
Frost Protection Alarm	5018	5018	1	0=Off	0=Off, 1=On	Alarms	6500
ZigBee Motion Sensor Installed	5019	5019	1	0=Off	0=Off, 1=On	Environment and Operating Status	All (W)
ZigBee Sensor Motion	5020	5020	1	0=No motion	0=No motion, 1=Motion	Zigbee Device #	All (W)
Clock Alarm	5021	5021	1	0=Off	0=Off, 1=On	Alarms	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Model(s) ¹
Wireless Sensor Communication Alarm	5023	5023	1	0=Off	0=Off, 1=On	Alarms	All (W)
Water Leak Alarm	5024	5024	1	0=Off	0=Off, 1=On	Alarms	All
Water Leak Sensor Installed	5025	5025	1	0=No	0=No, 1=Yes	Environment and Operating Status	All
Water Leak Sensor Status	5026	5026	1	0=Normal	0=Normal, 1=Leak	Zigbee Device #	All
Low Temperature	5027	5027	1	0=Off	0=Off, 1=On		All
ADR Utility Signal - Load Shedding	5028	5028	1-5	0=Off	0=Off, 1=On	ADR	All
ADR Status - Load Shedding	5029	5029	1	0=Off	0=Off, 1=On	ADR	All
ADR Override - Load Shedding	5030	5030	1-5	0=Off	0=Off, 1=On	ADR	All
High Temperature	5033	5033	1	0=Off	0=Off, 1=On		All
Purge Status	5034	5034	1	0=Off	0=Off, 1=On	Operating Status	All
PIR Local Proximity	5035	5035	1	0=No proximity	0=No proximity, 1=Proximity		All (W)
Activity Status	5036	5036	1-5	0=Inactive	0=Inactive, 1=Active		All
ADR Utility Signal - Pricing	5037	5037	1-5	0=Off	0=Off, 1=On	ADR	All
ADR Status - Pricing	5038	5038	1	0=Off	0=Off, 1=On	ADR	All
ADR Override - Pricing	5039	5039	1-5	0=Off	0=Off, 1=On	ADR	All
AI Eco Schedule Warning	5043	5043	1	0=Off	0=Off, 1=On	Home	All
AI Eco Setpoint Warning	5044	5044	1	0=Off	0=Off, 1=On	Home	All
AI Eco Dehumidification Warning	5045	5045	1	0=Off	0=Off, 1=On	Home	All

Endnotes

1 In the Model(s) column, (W) designates that the Modbus object applies to wireless models only.