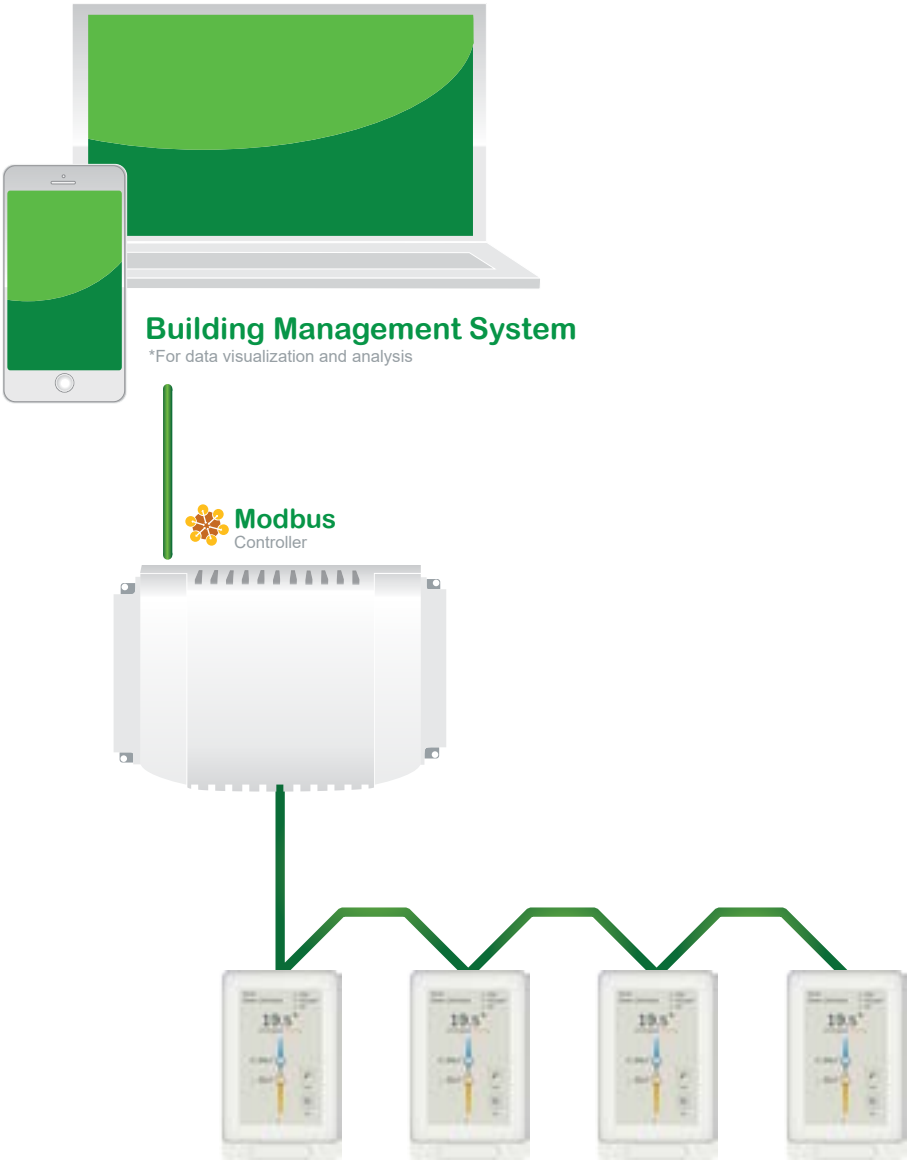
Viconics Room Controllers

TRCn500nnnn-VC Modbus Integration Guide

Firmware Revision 2.0



Version 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

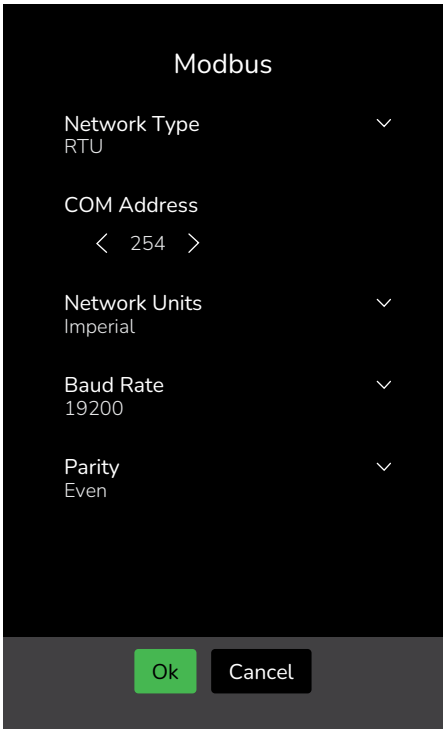
The Viconics Room Controller acts as a Modbus slave by using its RS485 port. As BACnet and Modbus use the same RS485 port, a setup menu allows switching between the two protocols.

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



- 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**: 1=Disabled, 2=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**: 1=SI, 2=Imperial
Baud Rate Default value: **19200**	**Baud Rate** Displays the Modbus baud rate. **Choices**: 1=4800, 2=9600, 3=19200, 4=38400, 5=57600
Parity Default value: **Even**	**Parity** Determines how the parity bit of the character's data frame is set to detect any errors in the sent/receives frame. **Choices**: 1=None, 2=Odd, 3=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	Type
DO1 Binary Output	1	1	1	1=Off	1=Off, 2=On	Terminals	3500
DO1 Occupancy Output	1	1	1	1=Off	1=Off, 2=On	Terminals	6500
DO2 Low Speed Fan Output	2	2	1	1=Off	1=Off, 2=On	Terminals	3500
Y2 Status	2	2	1	1=Off	1=Off, 2=On	Terminals	6500
DO3 Medium Speed Fan Output	3	3	1	1=Off	1=Off, 2=On	Terminals	3500
Y1 Status	3	3	1	1=Off	1=Off, 2=On	Terminals	6500
DO4 High Speed Fan Output	4	4	1	1=Off	1=Off, 2=On	Terminals	3500
G Fan Status	4	4	1	1=Off	1=Off, 2=On	Terminals	6500
DO5 Auxiliary Binary Output	5	5	1	1=Off	1=Off, 2=On	Terminals	3500
W1 Status	5	5	1	1=Off	1=Off, 2=On	Terminals	6500
DO6 Binary Output	6	6	1	1=Off	1=Off, 2=On	Terminals	3500
W2-OB Status	6	6	1	1=Off	1=Off, 2=On	Terminals	6500
DO7 Binary Output	7	7	1	1=Off	1=Off, 2=On	Terminals	All
DO8 Binary Output	8	8	1	1=Off	1=Off, 2=On	Terminals	All
DO9 Binary Output	9	9	1	1=Off	1=Off, 2=On	Terminals	All
Remote High Speed Fan Output	10	10	1	1=Off	1=Off, 2=On	Terminals	All
Remote Medium Speed Fan Output	11	11	1	1=Off	1=Off, 2=On	Terminals	All
Remote Low Speed Fan Output	12	12	1	1=Off	1=Off, 2=On	Terminals	All
Remote Low Speed Fan Output	13	13	1	1=Off	1=Off, 2=On	Terminals	All
Remote Heating Output	14	14	1	1=Off	1=Off, 2=On	Terminals	All

1000+ Modbus Address Functions

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
UI1 Binary	10001	1	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All
UI2 Binary	10002	2	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All
UI3 Binary	10003	3	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All
UI4 Binary	10004	4	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All
UI5 Binary	10005	5	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All
UI6 Binary	10006	6	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All
UI7 Binary	10007	7	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All
UI8 Binary	10008	8	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All
RUI1 Binary Input	10009	9	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All
RBI2 Binary Input	10010	10	2	1=Activated	1=Activated, 2=Not activ.	Terminals	All

3000+ Modbus Address Functions

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Room Temperature	30001	1	4	0 °F (-18 °C)	-40 to 122 °F (-40 to 50 °C)	Environment	All
Outdoor Temperature	30002	2	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Environment	All
Supply Temperature	30003	3	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Environment	All
Room Humidity	30004	4	4	0 %	0 to 100 %	Environment	All
Changeover Temperature	30005	5	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Economizer	3500
Wired Temperature Sensor	30006	6	4	0 °F (-18 °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	0 to 20000	System Status	6500
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
UI8 Voltage	30016	16	4	0 v	0 to 10 v	Terminals	All
UI1 Temperature	30017	17	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI2 Temperature	30018	18	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI3 Temperature	30019	19	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI4 Temperature	30020	20	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI5 Temperature	30021	21	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI6 Temperature	30022	22	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI7 Temperature	30023	23	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI8 Temperature	30024	24	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)	Terminals	All
UI1 Raw Value	31001	1001	4	0	0 to 4095	Terminals	All
UI2 Raw Value	31002	1002	4	0	0 to 4095	Terminals	All
UI3 Raw Value	31003	1003	4	0	0 to 4095	Terminals	All
UI4 Raw Value	31004	1004	4	0	0 to 4095	Terminals	All
UI5 Raw Value	31005	1005	4	0	0 to 4095	Terminals	All
UI6 Raw Value	31006	1006	4	0	0 to 4095	Terminals	All
UI7 Raw Value	31007	1007	4	0	0 to 4095	Terminals	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
UI8 Raw Value	31008	1008	4	0	0 to 4095	Terminals	All
Light Sensor Level	31009	1009	4	0	0 to 30000		All
Relative Humidity Raw Value	31010	1010	4	0 %	0 to 100 %		All
Wireless Device 1 - Temperature	31026	1026	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 2 - Temperature	31027	1027	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 3 - Temperature	31028	1028	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 4 - Temperature	31029	1029	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 5 - Temperature	31030	1030	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 6 - Temperature	31031	1031	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 7 - Temperature	31032	1032	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 8 - Temperature	31033	1033	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 9 - Temperature	31034	1034	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 10 - Temperature	31035	1035	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Effective Setpoint	31040	1040	4	-40 °F (-40 °C)	40 to 100 °F (4 to 38 °C)	Operating Status	All
Paired ZigBee Devices	31041	1041	4	0	0 to 20		All
RH Temperature Raw Value	31042	1042	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)		All
Wi-Fi Network Signal Strength	31058	1058	4	0 %	0 to 100 %		All
Airflow Setpoint	31060	1060	4	0 CFM	0 to 10000 CFM	Inputs	All
Wireless Device 11 - Temperature	31061	1061	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 12 - Temperature	31062	1062	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 13 - Temperature	31063	1063	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 14 - Temperature	31064	1064	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 15 - Temperature	31065	1065	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 16 - Temperature	31066	1066	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 17 - Temperature	31067	1067	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 18 - Temperature	31068	1068	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 19 - Temperature	31069	1069	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 20 - Temperature	31070	1070	4	-40 °F (-40 °C)	-40 to 185 °F (-40 to 85 °C)	Inputs	All
Wireless Device 1 - Humidity	31071	1071	4	0 %	0 to 100 %	Inputs	All
Wireless Device 2 - Humidity	31072	1072	4	0 %	0 to 100 %	Inputs	All
Wireless Device 3 - Humidity	31073	1073	4	0 %	0 to 100 %	Inputs	All
Wireless Device 4 - Humidity	31074	1074	4	0 %	0 to 100 %	Inputs	All
Wireless Device 5 - Humidity	31075	1075	4	0 %	0 to 100 %	Inputs	All
Wireless Device 6 - Humidity	31076	1076	4	0 %	0 to 100 %	Inputs	All
Wireless Device 7 - Humidity	31077	1077	4	0 %	0 to 100 %	Inputs	All
Wireless Device 8 - Humidity	31078	1078	4	0 %	0 to 100 %	Inputs	All
Wireless Device 9 - Humidity	31079	1079	4	0 %	0 to 100 %	Inputs	All
Wireless Device 10 - Humidity	31080	1080	4	0 %	0 to 100 %	Inputs	All
Wireless Device 11 - Humidity	31081	1081	4	0 %	0 to 100 %	Inputs	All
Wireless Device 12 - Humidity	31082	1082	4	0 %	0 to 100 %	Inputs	All
Wireless Device 13 - Humidity	31083	1083	4	0 %	0 to 100 %	Inputs	All
Wireless Device 14 - Humidity	31084	1084	4	0 %	0 to 100 %	Inputs	All
Wireless Device 15 - Humidity	31085	1085	4	0 %	0 to 100 %	Inputs	All
Wireless Device 16 - Humidity	31086	1086	4	0 %	0 to 100 %	Inputs	All
Wireless Device 17 - Humidity	31087	1087	4	0 %	0 to 100 %	Inputs	All
Wireless Device 18 - Humidity	31088	1088	4	0 %	0 to 100 %	Inputs	All
Wireless Device 19 - Humidity	31089	1089	4	0 %	0 to 100 %	Inputs	All
Wireless Device 20 - Humidity	31090	1090	4	0 %	0 to 100 %	Inputs	All
Wireless Device 1 - CO2	31091	1091	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 2 - CO2	31092	1092	4	0 ppm	0 to 5000 ppm	Environment	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Wireless Device 3 - CO2	31093	1093	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 4 - CO2	31094	1094	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 5 - CO2	31095	1095	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 6 - CO2	31096	1096	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 7 - CO2	31097	1097	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 8 - CO2	31098	1098	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 9 - CO2	31099	1099	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 10 - CO2	31100	1100	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 11 - CO2	31101	1101	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 12 - CO2	31102	1102	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 13 - CO2	31103	1103	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 14 - CO2	31104	1104	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 15 - CO2	31105	1105	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 16 - CO2	31106	1106	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 17 - CO2	31107	1107	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 18 - CO2	31108	1108	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 19 - CO2	31109	1109	4	0 ppm	0 to 5000 ppm	Environment	All
Wireless Device 20 - CO2	31110	1110	4	0 ppm	0 to 5000 ppm	Environment	All
Thermistor 1	31135	1135	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)		All
Thermistor 2	31136	1136	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)		All
Thermistor 3	31137	1137	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)		All
Thermistor 4	31138	1138	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)		All
Thermistor 5	31139	1139	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)		All
MCU Temperature	31140	1140	4	0 °F (-18 °C)	-40 to 180 °F (-40 to 82 °C)		All
WiFi Channel	31529	1529	4	0	0 to 165		All
Effective Occupancy	35001	5001	4	1=Occupied	1=Occupied, 2=Unoccupied, 3=Override, 4=Standby	Operating Status	All
ZigBee Network Status	35003	5003	4	1=Disabled	1=Disabled, 2=Initializing, 3=Upgrading, 4=Searching, 5=Joining, 6=Forming, 7=Resuming, 8=Online, 9=Failed		All
Weekday	35005	5005	4	1=Monday	1=Monday, 2=Tuesday, 3=Wed., 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday	Occupancy Schedule	All
Program Status	35006	5006	4	1=Idle	1=Idle, 2=Loading, 3=Running, 4=Waiting, 5=Halted, 6=Unloading	Lua Status	All
Program Error	35007	5007	4	1=No error	1=No error, 2=Yield, 3=Runtime, 4=Syntax, 5=Memory, 6=Double err	Lua Status	All
Wireless Device 1 - Status	35008	5008	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 2 - Status	35009	5009	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 3 - Status	35010	5010	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 4 - Status	35011	5011	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 5 - Status	35012	5012	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 6 - Status	35013	5013	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 7 - Status	35014	5014	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 8 - Status	35015	5015	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 9 - Status	35016	5016	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 10 - Status	35017	5017	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 1 - Battery	35018	5018	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 2 - Battery	35019	5019	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 3 - Battery	35020	5020	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 4 - Battery	35021	5021	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 5 - Battery	35022	5022	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 6 - Battery	35023	5023	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 7 - Battery	35024	5024	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 8 - Battery	35025	5025	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 9 - Battery	35026	5026	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 10 - Battery	35027	5027	4	1=None	1=None, 2=Normal, 3=Low		All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Wireless Device 1 - Communication Status	35028	5028	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 2 - Communication Status	35029	5029	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 3 - Communication Status	35030	5030	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 4 - Communication Status	35031	5031	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 5 - Communication Status	35032	5032	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 6 - Communication Status	35033	5033	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 7 - Communication Status	35034	5034	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 8 - Communication Status	35035	5035	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 9 - Communication Status	35036	5036	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 10 - Communication Status	35037	5037	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
CO2 Effective Source	35044	5044	4	1=None	1=None, 2=Internal, 3=Error, 4=Wired, 5=Wireless Sensor 1, 6=Wireless Sensor 2, 7=Wireless Sensor 3, 8=Wireless Sensor 4, 9=Wireless Sensor 5, 10=Wireless Sensor 6, 11=Wireless Sensor 7, 12=Wireless Sensor 8, 13=Wireless Sensor 9, 14=Wireless Sensor 10, 15=Wireless Sensor 11, 16=Wireless Sensor 12, 17=Wireless Sensor 13, 18=Wireless Sensor 14, 19=Wireless Sensor 15, 20=Wireless Sensor 16, 21=Wireless Sensor 17, 22=Wireless Sensor 18, 23=Wireless Sensor 19, 24=Wireless Sensor 20	Environment	All
Effective temperature sensor	35048	5048	4	1=Wired	1=Wired, 2=Internal, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20	Environment	All
Effective relative humidity sensor	35049	5049	4	1=None	1=None, 2=Internal, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20	Environment	All
Effective System Mode	35050	5050	4	1=Cool	1=Cool, 2=Heat	Operating Status	All
IP Status	35051	5051	4	1=Offline	1=Offline, 2=Initializing, 3=Ready, 4=Booting, 5=Resetting, 6=Fail, 7=Testing		All
Wi-Fi Network Status	35052	5052	4	1=Offline	1=Offline, 2=Associate, 3=Online, 4=Failure		All
SMTP Server Status	35054	5054	4	1=Unknown	1=Unknown, 2=Disabled, 3=Offline, 4=Online		All
Wireless Device 11 - Status	35057	5057	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 12 - Status	35058	5058	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 13 - Status	35059	5059	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 14 - Status	35060	5060	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 15 - Status	35061	5061	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 16 - Status	35062	5062	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 17 - Status	35063	5063	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 18 - Status	35064	5064	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 19 - Status	35065	5065	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 20 - Status	35066	5066	4	1=None	1=None, 2=Closed, 3=Opened, 4=No motion, 5=Motion, 6=Normal, 7=Leak		All
Wireless Device 11 - Battery	35067	5067	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 12 - Battery	35068	5068	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 13 - Battery	35069	5069	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 14 - Battery	35070	5070	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 15 - Battery	35071	5071	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 16 - Battery	35072	5072	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 17 - Battery	35073	5073	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 18 - Battery	35074	5074	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 19 - Battery	35075	5075	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 20 - Battery	35076	5076	4	1=None	1=None, 2=Normal, 3=Low		All
Wireless Device 11 - Communication Status	35077	5077	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 12 - Communication Status	35078	5078	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 13 - Communication Status	35079	5079	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 14 - Communication Status	35080	5080	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 15 - Communication Status	35081	5081	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 16 - Communication Status	35082	5082	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Wireless Device 17 - Communication Status	35083	5083	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 18 - Communication Status	35084	5084	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 19 - Communication Status	35085	5085	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Wireless Device 20 - Communication Status	35086	5086	4	1=Not paired	1=Not paired, 2=Online, 3=Invalid, 4=Offline		All
Time source	35107	5107	4	1=None	1=None, 2=Local, 3=BACnet, 4=NTP, 5=Cloud		All
Fan Speed Status	35108	5108	4	1=Off	1=Off, 2=Low, 3=Medium, 4=High	Operating Status	All
Wi-Fi Network Signal Strength	35109	5109	4	1=Poor	1=Poor, 2=Fair, 3=Good, 4=Excellent		All
WiFi Band	35580	5580	4	1=None	1=None, 2=5 GHz, 3=2.4 GHz		All

4000+ Modbus Address Functions

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Temperature Scale	40001	1	3-6	1=°C	1=°C, 2=°F		All
Display Language	40002	2	3-6	1=English	1=English, 2=French, 3=Spanish, 4=Chinese, 5=Russian, 6=Arabic, 7=Danish, 8=Italian, 9=German, 10=Indonesian, 11=Polish, 12=Swedish, 13=Norwegian, 14=Finnish, 15=Hungarian, 16=Turkish, 17=Dutch, 18=Czech, 19=Portuguese, 20=Bulgarian, 21=Slovak, 22=Japanese, 23=Hebrew	Preferences (main)	All
Fan Mode	40003	3	3-6	3=Smart	1=On, 2=Auto, 3=Smart, 4=Low, 5=Medium, 6=High	Home	3500
Fan Mode	40003	3	3-6	3=Smart	1=On, 2=Auto, 3=Smart	Home	6500
System Mode	40004	4	3-6	4=Heat	1=Off, 2=Auto, 3=Cool, 4=Heat	Home	All
RBI2 Configuration	40005	5	3-6	1=None	1=None, 2=Filter, 3=Service	Home	All
Default Setpoints	40006	6	3-6	1=Disabled	1=Disabled, 2=Enabled	Setpoint Configuration	All
Heating Valve	40007	7	3-6	1=NO	1=NO, 2=NC	Setpoint Configuration	All
UI1 Configuration	40008	8	3-6	1=None	1=None, 2=Rem NSB, 3=Motion NO, 4=Motion NC, 5=Window, 6=Fan lock	Inputs	All
UI2 Configuration	40009	9	3-6	1=None	1=None, 2=Door dry, 3=Override, 4=Filter, 5=Service	Inputs	All
Cooling Valve	40011	11	3-6	1=NO	1=NO, 2=NC	Dehumidifier	All
Dehumidification Enabled	40012	12	3-6	1=Disabled	1=Disabled, 2=Enabled	Dehumidifier	All
RUI1 Configuration	40013	13	3-6	1=None	1=None, 2=Filter, 3=Service, 4=COC/NH, 5=COC/NC, 6=COS	Dehumidifier	All
Pulsed Heating	40015	15	3-6	1=Off	1=Off, 2=On, 3=Occ out	Fan	3500
Fan Sequence	40016	16	3-6	5=Speeds-Smart	1=Auto, 2=Smart, 3=Auto-Smart, 4=Speeds-Auto, 5=Speeds-Smart, 6=Speeds-Auto-Smart	Fan	3500
Setpoint Function	40017	17	3-6	2=Attach SP	1=Dual SP, 2=Attach SP	Setpoint Configuration	All
Fan Control in Heating Mode	40019	19	3-6	1=Enabled	1=Enabled, 2=Forced Off-Auto/Smart, 3=Forced Off-All Modes	Fan	3500
Fan Control in Heating Mode	40019	19	3-6	2=On	1=Off, 2=On	Rooftop	6500
Sequence of Operation	40020	20	3-6	2=Heating only	1=Cooling only, 2=Heating only, 3=Reheat Only, 4=Cooling/Heating, 5=Cooling/Reheat, 6=Heating/Reheat, 7=Cooling/Heating/Reheat	Fan Coil Unit	3500
Occupancy Command	40022	22	3-6	2=Occupied	1=Loc occ., 2=Occupied, 3=Unocc.	Occupancy Configuration	All
Network Units	40023	23	3-6	2=Imperial	1=SI, 2=Imperial	Preferences (main)	All
Time Format	40027	27	3-6	1=12 Hour (AM-PM)	1=12 Hour (AM-PM), 2=24 Hour	Preferences (setup)	All
Standby Mode Configuration	40028	28	3-6	1=Absolute	1=Absolute, 2=Offset	Setpoint Configuration	All
Color Theme	40029	29	3-6	2=Dark	1=Light, 2=Dark	Preferences (main)	All
Main Display	40030	30	3-6	1=Temp.	1=Temp., 2=Setpoint		All
Use Standby Screen	40032	32	3-6	1=Disabled	1=Disabled, 2=Custom Image	Display	All
Valve 1 Type	40034	34	3-6	2=Floating	1=On/Off, 2=Floating, 3=0-10V Direct Acting, 4=0-10V Reverse Acting	Fan Coil Unit	3500
Reheat Time Base	40035	35	3-6	1=On/Off (4 CPH)	1=On/Off (4 CPH), 2=PWM (10s Duty Cycle)	Fan Coil Unit	3500
Auxiliary Output	40036	36	3-6	1=Reheat (Normally Open)	1=Reheat (Normally Open), 2=Occupancy (Normally Open), 3=Occupancy (Normally Closed), 4=Aux Fan (Normally Open), 5=Aux Fan (Normally Closed), 6=Reheat (Normally Closed)	Fan Coil Unit	3500
BO1 Auxiliary Output Configuration	40036	36	3-6	1=NO	1=NO, 2=NC		6500
UI3 Configuration	40039	39	3-6	1=None	1=None, 2=CO2, 3=COC/NH, 4=COC/NC, 5=COS	Inputs	3500
UI3 Configuration	40039	39	3-6	1=None	1=None, 2=CO2	Inputs	6500
DO6-AO1 Configuration	40041	41	3-6	2=Binary RC	1=Analog, 2=Binary RC, 3=Binary RH	Terminals	3500
DO6-AO1 Configuration	40041	41	3-6	3=Binary RH	1=Analog, 2=Binary RC, 3=Binary RH	Terminals	6500

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
DO7-AO2 Configuration	40042	42	3-6	2=Binary RC	1=Analog, 2=Binary RC	Terminals	3500
DO7-AO2 Configuration	40042	42	3-6	1=Analog	1=Analog, 2=Binary RC	Terminals	6500
DO8-AO3 Configuration	40043	43	3-6	2=Binary RC	1=Analog, 2=Binary RC	Terminals	3500
DO8-AO3 Configuration	40043	43	3-6	1=Analog	1=Analog, 2=Binary RC	Terminals	6500
DO9-AO4 Configuration	40044	44	3-6	2=Binary RC	1=Analog, 2=Binary RC	Terminals	All
Frost Protection	40045	45	3-6	1=Off	1=Off, 2=On	Rooftop	6500
Mechanical Cooling Allowed	40050	50	3-6	1=Off	1=Off, 2=On	Economizer	6500
Enable Smart Recovery	40051	51	3-6	1=Off	1=Off, 2=On	Occupancy Configuration	All
Economizer Configuration	40053	53	3-6	1=Off	1=Off, 2=On	Economizer	6500
French	40056	56	3-6	2=Enabled	1=Disabled, 2=Enabled	Language Selection	All
Spanish	40057	57	3-6	2=Enabled	1=Disabled, 2=Enabled	Language Selection	All
Chinese	40058	58	3-6	2=Enabled	1=Disabled, 2=Enabled	Language Selection	All
Russian	40059	59	3-6	2=Enabled	1=Disabled, 2=Enabled	Language Selection	All
Month	40060	60	3-6	1=Jan.	1=Jan., 2=Feb., 3=Mar., 4=Apr., 5=May, 6=June, 7=July, 8=Aug., 9=Sept., 10=Oct., 11=Nov., 12=Dec.	Date and Time	All
Fan Delay	40061	61	3-6	2=On	1=Off, 2=On	Rooftop	6500
Wireless Device 1 - Function	40066	66	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 2 - Function	40067	67	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 3 - Function	40068	68	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 4 - Function	40069	69	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 5 - Function	40070	70	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 6 - Function	40071	71	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 7 - Function	40072	72	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 8 - Function	40073	73	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 9 - Function	40074	74	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 10 - Function	40075	75	3-6	6=Remove	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Occupancy Source	40077	77	3-6	1=Motion	1=Motion, 2=Schedule, 3=Motion during Schedule, 4=Motion or Schedule		All
Control Status	40079	79	3	1=Off	1=Off, 2=Cool, 3=Heat		All
Arabic	40083	83	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Bulgarian	40084	84	3-6	1=Disabled	1=Disabled, 2=Enabled		
Czech	40085	85	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Danish	40086	86	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Dutch	40087	87	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Finnish	40088	88	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
German	40089	89	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Hungarian	40090	90	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Indonesian	40091	91	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Italian	40092	92	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Norwegian	40093	93	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Polish	40094	94	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Portuguese	40095	95	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Slovak	40096	96	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Swedish	40097	97	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Turkish	40098	98	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Comfort or economy mode	40099	99	3-6	1=Comfort	1=Comfort, 2=Economy		6500
Reversing valve operation	40100	100	3-6	1=O	1=O, 2=B		6500
Compressor - auxiliary interlock	40101	101	3-6	1=Off	1=Off, 2=On		6500
Application	40102	102	3-6	3=	1=FCU	HVAC Configuration	3500
Application	40102	102	3-6	1=Rooftop Unit	1=Rooftop Unit, 2=Heat Pump	HVAC Configuration	6500
Modbus Baud Rate	40105	105	3-6	1=4800	1=4800, 2=9600, 3=19200, 4=38400, 5=57600	Modbus	All
Modbus Parity Bit	40106	106	3-6	1=None	1=None, 2=Odd, 3=Even	Modbus	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Schedule Type	40107	107	3-6	1=7 days	1=7 days, 2=5+2 days, 3=5+1+1 day	Occupancy Schedule	All
UI1 Type	40109	109	3	2=Binary	1=Therm., 2=Binary, 3=Voltage		All
UI2 Type	40110	110	3	2=Binary	1=Therm., 2=Binary, 3=Voltage		All
UI3 Type	40111	111	3	1=Therm.	1=Therm., 2=Binary, 3=Voltage		3500
UI3 Type	40111	111	3	3=Voltage	1=Therm., 2=Binary, 3=Voltage		6500
UI4 Type	40112	112	3	1=Therm.	1=Therm., 2=Binary, 3=Voltage		All
UI5 Type	40113	113	3	1=Therm.	1=Therm., 2=Binary, 3=Voltage		All
UI6 Type	40114	114	3	1=Therm.	1=Therm., 2=Binary, 3=Voltage		All
UI7 Type	40115	115	3	3=Voltage	1=Therm., 2=Binary, 3=Voltage		All
UI8 Type	40116	116	3	3=Voltage	1=Therm., 2=Binary, 3=Voltage		All
CO2 Autocalibration	40119	119	3-6	2=Enabled	1=Disabled, 2=Enabled		All
Relative humidity sensor	40121	121	3-6	2=Internal	1=None, 2=Internal, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20	Inputs	All
Room Temperature Sensor	40122	122	3-6	1=Wired	1=Wired, 2=Internal, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20	Inputs	All
Temperature Alarm Enabled	40123	123	3-6	1=Off	1=Off, 2=On		All
ADR Permission	40124	124	3-6	1=Disabled	1=Disabled, 2=Enabled	ADR	All
Fan Type	40128	128	3-6	3=3 Speed (L-M-H)	1=1 Speed (H), 2=2 Speed (L-H), 3=3 Speed (L-M-H), 4=ECM	Fan	3500
Japanese	40129	129	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Hebrew	40130	130	3-6	1=Disabled	1=Disabled, 2=Enabled	Language Selection	All
Valve 2 Type	40133	133	3-6	2=Floating	1=On/Off, 2=Floating, 3=0-10V Direct Acting, 4=0-10V Reverse Acting		3500
VAV Box Type	40134	134	3-6	2=PI	1=PD, 2=PI		
Reheat Configuration	40135	135	3-6	1=None	1=None, 2=Duct only, 3=Base only, 4=Duct+base, 5=Base+duct		
Damper Override	40136	136	3-6	1=None	1=None, 2=Minimum, 3=Max. cool, 4=Close, 5=Reheat, 6=Open		
Zone Control Mode	40137	137	3-6	1=None	1=Cool, 2=Heat		
Wireless Device 11 - Function	40138	138	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 12 - Function	40139	139	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 13 - Function	40140	140	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 14 - Function	40141	141	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 15 - Function	40142	142	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 16 - Function	40143	143	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 17 - Function	40144	144	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 18 - Function	40145	145	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 19 - Function	40146	146	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
Wireless Device 20 - Function	40147	147	3-6	1=None	1=None, 2=Window, 3=Door, 4=Motion, 5=Env. data, 6=Remove, 7=Water, 8=Refrig., 9=Freezer		All
CO2 source	40148	148	3-6	2=Local	1=None, 2=Local, 3=Wireless Sensor 1, 4=Wireless Sensor 2, 5=Wireless Sensor 3, 6=Wireless Sensor 4, 7=Wireless Sensor 5, 8=Wireless Sensor 6, 9=Wireless Sensor 7, 10=Wireless Sensor 8, 11=Wireless Sensor 9, 12=Wireless Sensor 10, 13=Wireless Sensor 11, 14=Wireless Sensor 12, 15=Wireless Sensor 13, 16=Wireless Sensor 14, 17=Wireless Sensor 15, 18=Wireless Sensor 16, 19=Wireless Sensor 17, 20=Wireless Sensor 18, 21=Wireless Sensor 19, 22=Wireless Sensor 20	Environment	All
Enable Static IP	40153	153	3	1=Dynamic	1=Dynamic, 2=Static		All
Enable WIFI	40154	154	3	1=Disabled	1=Disabled, 2=Enabled		All
Hidden WIFI	40155	155	3	1=Disabled	1=Disabled, 2=Enabled		All
Notification Type	40156	156	3-6	1=Disabled	1=Disabled, 2=Critical, 3=Warning, 4=Ok, 5=Informative		All
Notification Display Type	40157	157	3-6	3=All	1=Disabled, 2=Custom Only, 3=All	Display	All
Occupancy Sensor	40158	158	3-6	4=High	1=Off, 2=Low, 3=Medium, 4=High	Occupancy Configuration	All
Proximity Sensor	40159	159	3-6	4=High	1=Off, 2=Low, 3=Medium, 4=High		All
Custom Standby Text Color	40160	160	3-6	1=White	1=White, 2=Black		All
HMI Setpoint	40162	162	3-6	2=Slider	1=None, 2=Slider, 3=Buttons (Attached SP Only)	Display	All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Halo Mode	40163	163	3-6	2=Heat/Cool	1=Disabled, 2=Heat/Cool	Display	All
Button 1	40164	164	3-6	2=System Mode	1=Disabled, 2=System Mode, 3=Fan Mode	Display	All
Button 2	40165	165	3-6	3=Fan Mode	1=Disabled, 2=System Mode, 3=Fan Mode	Display	All
Info Item 1	40168	168	3-6	3=Humidity	1=Disabled, 2=Outdoor Air Temperature, 3=Humidity, 4=CO2 Level	Display	All
Info Item 2	40169	169	3-6	4=CO2 Level	1=Disabled, 2=Outdoor Air Temperature, 3=Humidity, 4=CO2 Level	Display	All
Info Item 3	40170	170	3-6	2=Outdoor Air Temperature	1=Disabled, 2=Outdoor Air Temperature, 3=Humidity, 4=CO2 Level	Display	All
WiFi Security Type	40172	172	3	6=UNKNOWN SECURITY	1=WPA2 AES PSK, 2=WPA2 TKIP PSK, 3=WPA2 MIXED PSK, 4=WPA3 SAE, 5=WPA3 WPA2 PSK, 6=UNKNOWN SECURITY	Display	All
BBMD Status	40196	196	3	6=Registration Failed	1=Offline, 2=DNS Lookup, 3=DNS Fail, 4=Registering, 5=Registered, 6=Registration Failed	Display	All
Occupied Cool Setpoint	44001	4001	3-6	75 °F (24 °C)	54 to 100 °F (12 to 38 °C)	Setpoints	All
Occupied Heat Setpoint	44002	4002	3-6	72 °F (22 °C)	40 to 90 °F (4 to 32 °C)	Setpoints	All
Unoccupied Cool Setpoint	44003	4003	3-6	80 °F (27 °C)	54 to 100 °F (12 to 38 °C)	Setpoints	All
Unoccupied Heat Setpoint	44004	4004	3-6	62 °F (17 °C)	40 to 90 °F (4 to 32 °C)	Setpoints	All
Maximum Heating Setpoint Limit	44005	4005	3-6	90 °F (32 °C)	40 to 90 °F (4 to 32 °C)	Setpoints	All
Minimum Cooling Setpoint Limit	44006	4006	3-6	54 °F (12 °C)	54 to 100 °F (12 to 38 °C)	Setpoints	All
Calibrate Room Temperature Sensor	44007	4007	3-6	0 °F Delta (0 °C)	-5 to 5 °F Delta (-3 to 3 °C)	Inputs	All
Standby Cool Setpoint	44009	4009	3-6	78 °F (26 °C)	54 to 100 °F (12 to 38 °C)	Setpoints	All
Standby Heat Setpoint	44010	4010	3-6	69 °F (21 °C)	40 to 90 °F (4 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 %	30 to 95 %	Dehumidifier	All
Calibrate Humidity Sensor	44013	4013	3-6	0 %	-15 to 15 %	Inputs	All
Dehumidification Hysteresis	44015	4015	3-6	5 %	2 to 20 %	Dehumidifier	All
COM Address	44018	4018	3-6	254	0 to 254	BACnet	All
Model Number	44019	4019	3		20 to 61	Device Info	All
Minimum Deadband	44020	4020	3-6	3 °F Delta (2 °C)	1.8 to 5 °F Delta (1 to 3 °C)	Setpoint Configuration	All
Heating CPH	44021	4021	3-6	4	3 to 8		All
Cooling CPH	44022	4022	3-6	4	3 to 8		3500
Cooling CPH	44022	4022	3-6	4	3 to 4		6500
Number of Pipes	44025	4025	3-6	2	0 to 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 °F Delta (2 °C)	3 to 10 °F Delta (2 to 6 °C)	Fan Coil Unit	All
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 °F Delta (2 °C)	1 to 5 °F Delta (1 to 3 °C)		All
Default Cooling Setpoint	44042	4042	3-6	75 °F (24 °C)	54 to 100 °F (12 to 38 °C)		All
Default Heating Setpoint	44043	4043	3-6	72 °F (22 °C)	40 to 90 °F (4 to 32 °C)		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	Rooftop	6500
Number of Heating Stages	44048	4048	3-6	2	0 to 2	Rooftop	6500
Number of Cooling Stages	44049	4049	3-6	2	1 to 2	Rooftop	6500
Power-up Delay	44050	4050	3-6	10	10 to 120	Rooftop	6500
Calibrate Outside Temperature Sensor	44051	4051	3-6	0 °F Delta (0 °C)	-5 to 5 °F Delta (-3 to 3 °C)	Inputs	All
Heating Lockout from Outside Air Temperature	44052	4052	3-6	120 °F (49 °C)	-15 to 120 °F (-26 to 49 °C)	Rooftop	6500
Cooling Lockout	44053	4053	3-6	-40 °F (-40 °C)	-40 to 95 °F (-40 to 35 °C)	Rooftop	6500
Supply Air Temperature Setpoint	44054	4054	3-6	55 °F (13 °C)	50 to 90 °F (10 to 32 °C)	Economizer	6500

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Changeover Setpoint	44055	4055	3-6	55 °F (13 °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	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 1	44060	4060	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 2	44061	4061	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 2	44062	4062	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 3	44063	4063	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 3	44064	4064	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 1	44065	4065	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 1	44066	4066	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 2	44067	4067	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 2	44068	4068	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 3	44069	4069	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 3	44070	4070	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 1	44071	4071	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 1	44072	4072	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 2	44073	4073	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 2	44074	4074	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 3	44075	4075	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 3	44076	4076	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 1	44077	4077	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 1	44078	4078	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 2	44079	4079	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 2	44080	4080	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 3	44081	4081	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 3	44082	4082	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 1	44083	4083	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 1	44084	4084	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 2	44085	4085	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 2	44086	4086	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 3	44087	4087	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 3	44088	4088	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 1	44089	4089	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 1	44090	4090	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 2	44091	4091	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 2	44092	4092	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 3	44093	4093	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 3	44094	4094	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 1	44095	4095	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 1	44096	4096	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 2	44097	4097	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 2	44098	4098	3-6	1440	0 to 1440	Occupancy Schedule	All
Occupied 3	44099	4099	3-6	1440	0 to 1440	Occupancy Schedule	All
Unoccupied 3	44100	4100	3-6	1440	0 to 1440	Occupancy Schedule	All
Fresh Air Range Upper Limit	44101	4101	3-6	0	0 to 20000		6500
Minimum Supply Heat	44102	4102	3-6	64 °F (18 °C)	50 to 72 °F (10 to 22 °C)		6500
Supply Heat Lockout	44103	4103	3-6	32 °F (0 °C)	-15 to 120 °F (-26 to 49 °C)		6500
Supply Temperature High Limit	44104	4104	3-6	120 °F (49 °C)	70 to 150 °F (21 to 66 °C)	Rooftop	6500
Supply Temperature Low Limit	44105	4105	3-6	45 °F (7 °C)	35 to 65 °F (2 to 18 °C)	Rooftop	6500

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Minimum Fresh Air	44106	4106	3-6	0	0 to 20000		6500
Maximum Fresh Air	44107	4107	3-6	0	0 to 20000		6500
Minimum CO2	44108	4108	3-6	800 ppm	0 to 4800 ppm		6500
Maximum CO2	44109	4109	3-6	1200 ppm	200 to 5000 ppm		6500
Time	44110	4110	3-6	0	0 to 1439	Date and Time	All
Year	44111	4111	3-6	2014	2000 to 2090	Date and Time	All
Day	44112	4112	3-6	1	1 to 31	Date and Time	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 °C)	34 to 90 °F (1 to 32 °C)		6500
Low balance point	44133	4133	3-6	-12 °F (-24 °C)	-40 to 30 °F (-40 to -1 °C)		6500
Ambient Low Temperature Threshold	44143	4143	3-6	40 °F (4 °C)	32 to 50 °F (0 to 10 °C)		All
Temperature Alarm Hysteresis	44144	4144	3-6	2 °F Delta (1 °C)	0 to 10 °F Delta (0 to 6 °C)		All
ADR Setpoint Offset - Load Shedding	44145	4145	3-6	4 °F Delta (2 °C)	1 to 10 °F Delta (1 to 6 °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		3500
ECM Fan Medium Voltage	44153	4153	3-6	6 v	0.1 to 9.9 v		3500
ECM Fan High Voltage	44154	4154	3-6	8.6 v	0.2 to 10 v		3500
Zone Heating PI Weight	44155	4155	3-6	100 %	0 to 100 %		
Zone Cooling PI Weight	44156	4156	3-6	100 %	0 to 100 %		
Flow @ 1 inch wc (K)	44157	4157	3-6	800 CFM	150 to 7500 CFM		
Pressure Sensor Range	44158	4158	3-6	10 in	5 to 50 inches of water		
Actuator Timing	44159	4159	3-6	15 mins	5 to 90 minutes		
Floating Reheat Timing	44160	4160	3-6	15 mins	5 to 90 minutes		
Outside Air Temperature Duct Heater Lockout	44161	4161	3-6	60 °F (16 °C)	30 to 90 °F (-1 to 32 °C)		
Outside Air Temperature Baseboard Lockout	44162	4162	3-6	60 °F (16 °C)	30 to 90 °F (-1 to 32 °C)		
Damper Minimum Position	44163	4163	3-6	10 %	0 to 100 %		
Damper Maximum Cooling Position	44164	4164	3-6	100 %	0 to 100 %		
Damper Maximum Heating Position	44165	4165	3-6	100 %	0 to 100 %		
Damper Maximum Reheat Position	44166	4166	3-6	30 %	0 to 100 %		
Minimum Airflow	44167	4167	3-6	50 CFM	0 to 1000 CFM		
Maximum Cooling Airflow	44168	4168	3-6	200 CFM	0 to 1000 CFM		
Maximum Heating Airflow	44169	4169	3-6	200 CFM	0 to 1000 CFM		
Maximum Reheat Airflow	44170	4170	3-6	50 CFM	0 to 1000 CFM		
Minimum Airflow Offset	44171	4171	3-6	0 CFM	-5000 to 5000 CFM		
Maximum Airflow Offset	44172	4172	3-6	0 CFM	-5000 to 5000 CFM		
Ambient High Temperature Threshold	44175	4175	3-6	86 °F (30 °C)	32 to 122 °F (0 to 50 °C)		All
Refrigeration High Temperature Threshold	44176	4176	3-6	40 °F (4 °C)	32 to 60 °F (0 to 16 °C)		All
Refrigeration Low Temperature Threshold	44177	4177	3-6	32 °F (0 °C)	32 to 50 °F (0 to 10 °C)		All
Freezer High Temperature Threshold	44178	4178	3-6	0 °F (-18 °C)	-40 to 32 °F (-40 to 0 °C)		All

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Minimum Occupied Heating Setpoint Limit	44186	4186	3-6	40 °F (4 °C)	40 to 90 °F (4 to 32 °C)		All
Maximum Occupied Cooling Setpoint Limit	44187	4187	3-6	100 °F (38 °C)	54 to 100 °F (12 to 38 °C)		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 %		All
Halo Red Color	44190	4190	3-6	0	0 to 255		
Halo Green Color	44191	4191	3-6	0	0 to 255		
Halo Blue Color	44192	4192	3-6	0	0 to 255		
ADR Setpoint Offset - Pricing	44193	4193	3-6	4 °F Delta (2 °C)	1 to 10 °F Delta (1 to 6 °C)	ADR	All
Temperature compensation matrix	44194	4194	3-6	0 °F (-18 °C)	-100 to 100 °F (-73 to 38 °C)		All
Halo Maximum Brightness	44199	4199	3-6	100 %	0 to 100 %		
Timezone Offset	44201	4201	3-6	0 mins	-1440 to 1440 minutes		
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
Pulsed Heating Demand	48003	8003	3	0 %	0 to 100 %		
Economizer Demand	48004	8004	3	0 %	0 to 100 %	System Status	6500
Analog Output Heat Demand	48005	8005	3	0 %	0 to 100 %		6500
PI Zoning Demand	48006	8006	3	0 %	0 to 100 %		
AO1 Voltage	49001	9001	3	0 v	0 to 10 v		All
AO2 Voltage	49002	9002	3	0 v	0 to 10 v		All
AO3 Voltage	49003	9003	3	0 v	0 to 10 v		All
AO4 Voltage	49004	9004	3	0 v	0 to 10 v		All

5000+ Modbus Address Functions

Object Name	Modbus			Default Value	Range Value	Room Controller	
	Address	Register	Function Code			Screen Name	Type
Filter Alarm	5001	5001	1	1=Off	1=Off, 2=On	Alarms	All
Service Alarm	5002	5002	1	1=Off	1=Off, 2=On	Alarms	All
Window Alarm	5003	5003	1	1=Off	1=Off, 2=On	Alarms	All
PIR Local Motion	5004	5004	1	1=No motion	1=No motion, 2=Motion	Operating Status	All
Dehumidification Status	5005	5005	1	1=Off	1=Off, 2=On	System Status	All
Low Battery Alarm	5006	5006	1	1=Off	1=Off, 2=On	Alarms	All
Window Contact Installed	5007	5007	1	1=No	1=No, 2=Yes	Environment	All
Window Contact Status	5008	5008	1	1=Closed	1=Closed, 2=Opened	Operating Status	All
Door Contact Installed	5009	5009	1	1=No	1=No, 2=Yes	Environment	All
Door Contact Status	5010	5010	1	1=Closed	1=Closed, 2=Opened	Operating Status	All
Fan Lock Alarm	5013	5013	1	1=Off	1=Off, 2=On	Alarms	6500
Smart Recovery Status	5014	5014	1	1=Off	1=Off, 2=On	System Status	All
Exception Status	5015	5015	1	1=Off	1=Off, 2=On		All
CO2 Alarm	5016	5016	1	1=Off	1=Off, 2=On	Alarms	6500
Low Fresh Air Alarm	5017	5017	1	1=Off	1=Off, 2=On	Alarms	6500
Frost Protection Alarm	5018	5018	1	1=Off	1=Off, 2=On	Alarms	6500
ZigBee PIR Sensor Installed	5019	5019	1	1=Off	1=Off, 2=On		All
ZigBee Sensor Motion	5020	5020	1	1=No motion	1=No motion, 2=Motion		All
Clock Alarm	5021	5021	1	1=Off	1=Off, 2=On	Alarms	All
Wireless Sensor Communication Alarm	5023	5023	1	1=Off	1=Off, 2=On	Alarms	All
Water Leak	5024	5024	1	1=Off	1=Off, 2=On	Alarms	All
Water Leak Sensor Installed	5025	5025	1	1=No	1=No, 2=Yes	Environment	All
Water leak sensor status	5026	5026	1	1=Normal	1=Normal, 2=Leak	Operating Status	All
Low Temperature	5027	5027	1	1=Off	1=Off, 2=On	Rooftop	All
ADR Utility Signal - Load Shedding	5028	5028	1-5	1=Off	1=Off, 2=On	ADR	All
ADR Status - Load Shedding	5029	5029	1	1=Off	1=Off, 2=On	ADR	All
ADR Override - Load Shedding	5030	5030	1-5	1=Off	1=Off, 2=On	ADR	All
High Temperature	5033	5033	1	1=Off	1=Off, 2=On	Rooftop	All
Purge Status	5034	5034	1	1=Off	1=Off, 2=On	Operating Status	All
PIR Local Proximity	5035	5035	1	1=No proximity	1=No proximity, 2=Proximity		All
Activity Status	5036	5036	1-5	1=Inactive	1=Inactive, 2=Active		All
ADR Utility Signal - Pricing	5037	5037	1-5	1=Off	1=Off, 2=On	ADR	All
ADR Status - Pricing	5038	5038	1	1=Off	1=Off, 2=On	ADR	All
ADR Override - Pricing	5039	5039	1-5	1=Off	1=Off, 2=On	ADR	All