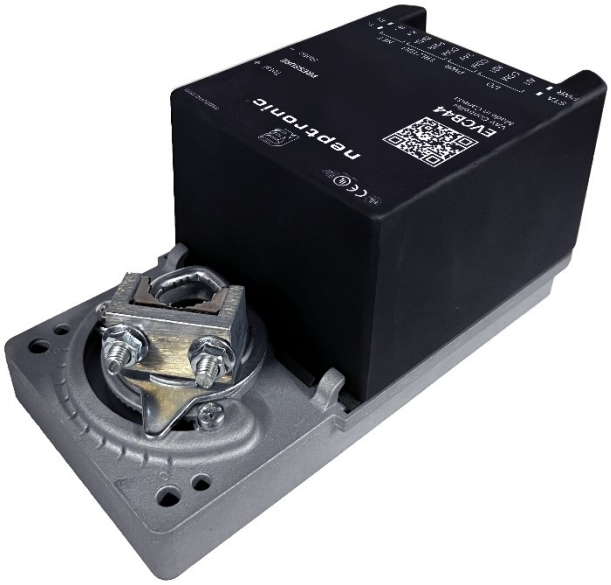
EVCB44N Series

Modbus Communication Module User Guide



EVCB44NIT0S (0 TRIACS / pressure independent)
EVCB44NDT0S (0 TRIACS / pressure dependent)

Introduction

The EVCB44N Series Modbus Communication Module User Guide provides information for using Neptronic® communication feature. The controller uses Modbus communication protocol over serial line in the RTU mode and provides a Modbus network interface between client devices and Neptronic EVCB44N Series devices.

The EVCB44N Series Modbus Guide assumes that you are familiar with Modbus terminology.

The following are the requirements for Modbus:

- *Data Model*. The EVCB Modbus server data model uses only the Holding Registers table.
- *Function Codes*. The EVCB Modbus server supports a limited function codes subset comprising:
    - Read Holding Registers (0x03)
    - Write Single Register (0x06)
    - Write Multiple Registers (0x10)
- *Exception Responses*. The EVCB Modbus server supports the following exception codes:
    - Illegal data address
    - Illegal data value
    - Slave device busy
- *Serial Line*. The EVCB Modbus over serial line uses RTU transmission mode over a two-wire configuration RS485 (EIA/TIA-485 standard) physical layer.
    - The physical layer can use fixed baud rate selection or automatic baud rate detection (default) as per the **Modbus Auto Baud Rate** device menu item or holding register index 1.
    - The supported baud rates are 9600, 19200, 38400, and 57600.
    - The physical layer also supports variable parity control and stop bit configuration as per the **Modbus Comport Config** device menu item or holding register index 2.
    - In auto baud rate configuration, if the device detects only consecutive bad frames (2 or more) for one second with any given baud rate, it will reinitialize itself to the next baud rate.
- *Addressing*. The EVCB device only answers at the following address:
    - The device's unique address (1 to 246) that can be set through the device menu or through holding register index 0.

Holding Registers Table

Table Glossary

Name	Description	Name	Description
W	Writable Register	ASCII	For registers containing ASCII (8-bit) characters
RO	Read Only Register	MSB	Most Significant Byte
Unsigned	For range of values from 0 to 65,535, unless otherwise specified	LSB	Least Significant Byte
Signed	For range of values from -32,768 to 32,767, unless otherwise specified	MSW	Most Significant Word
Bit String	For registers with multiple values using bit mask (example, flags)	LSW	Least Significant Word

Holding Register Table

Protocol Address	Convention Notation	Description	Data Type	Range	Writable
0	40001	Modbus Address and Product Type.	Unsigned	MSB = Product type (e.g. 111 for EVCB44) LSB = Modbus Address (e.g. 1-246)	W
1	40002	MSTP Baud Rate.	Unsigned *Scale 100*	0, 9600, 19200, 38400, or 57600 0 = Auto Baud Rate Detection *Value/100 (e.g. 38400 baud = 384)*	W
2	40003	Modbus Slave Communication Port Configuration.	Unsigned	1= No parity, 2 Stop bits 2= Even parity, 1 stop bit 3= Odd parity, 1 stop bit	W
3	40004	Product Name (characters 8 & 7).	ASCII	1 to 65,535 char 8: 0x53 = S char 7: 0x00 =	W
4	40005	Product Name (characters 6 & 5).	ASCII	1 to 65535 char 6: 0x49 = I char 5: 0x34 = 4	W
5	40006	Product Name (characters 4 & 3).	ASCII	1 to 65535 char 4: 0x42 = B char 3: 0x4E = N	W
6	40007	Product Name (characters 2 & 1).	ASCII	1 to 65535 char 2: 0x45 = E char 1: 0x56 = V	W

Protocol Address	Convention Notation	Description	Data Type	Range	Writable
7	4000**8**	Product actual firmware version.	Unsigned	1 to 65535 (e.g. 410)	RO
8	4000**9**	Product actual EEPROM version.	Unsigned	1 to 65535 (e.g. 203)	RO
9	400**10**	System Status 1.	Bit String	**B0 – B11: Reserved** **B12: CO2 alarm** *0 = Normal; 1 = Alarm* **B13: Pressure mode (actual status)** *0 = Independent; 1 = Dependent* **B14: Air Flow** *0 = Normal; 1 = Error*	RO
10	400**11**	System Status 2.	Bit String	[B0-B11, B13-B14]: Reserved **B12: Alarm override** *0 = Normal; 1 = Alarm*	RO
11	400**12**	Internal Temperature reading from digital room sensor.	Unsigned *Scale 100*	0 to 5000 *Value x 100 (e.g. 23°C = 2300)*	RO
12	400**13**	External Temperature reading from AI1. See reg 40**108**.	Signed *Scale 100*	-4000 to 10000 *Value x 100 (e.g. 18°C = 1800)*	RO
13	400**14**	Change Over Temperature reading from AI1. See reg 40**108**.	Signed *Scale 100*	-4000 to 10000 *Value x 100 (e.g. 18°C = 1800)*	RO
14	400**15**	Optional relative humidity reading from digital room sensor on designated models. If not available, the value will be fixed to 0x7FFF (32767)	Unsigned *Scale 10*	0 to 1000 *Value x 10 (e.g. 45%RH = 450)*	RO
15	400**16**	Integrated pressure sensor reading on EVCB44N models.	Unsigned *Scale 10*	0 to 2500 *Value x 10 (e.g. 10 Pa = 100)*	RO
16	400**17**	Analog input 1 value.	Unsigned *Scale 100*	0 to 1000 *Value x 100 (e.g. 2 V = 200)*	RO
17	400**18**	*Reserved address space*			

Protocol Address	Convention Notation	Description	Data Type	Range	Writable
18	400**19**	CO2 reading in ppm, either from digital room sensor on designated models or reading from AI1 as per reg 40**159** "System Options 3" bit 3 "CO2 Control Source" value.	Unsigned *Scale 100*	100 to reg 400**99** *Value x 100 (e.g. 5 ppm = 500)*	RO
19	400**20**	Air supply temperature reading from AI1. See reg 40**108**.	Signed *Scale 100*	-4000 to 10000 *Value x 100 (e.g. 5°C = 500)*	RO
20	400**21**	Control temperature.	Signed *Scale 100*	-4000 to 10000 *Value x 100 (e.g. 25°C = 2500)*	W
21	400**22**	Heating demand for heating ramp 1.	Unsigned *Scale 10*	0 to 1000 *Value x 10 (e.g. 25% = 250)*	RO
22	400**23**	Cooling demand for cooling ramp 1.	Unsigned *Scale 10*	0 to 1000 *Value x 10 (e.g. 25% = 250)*	RO
23	400**24**	Temperature offset applied on internal temperature.	Signed *Scale 100*	-500 to 500 *Value x 100 (e.g. 0.5°C = 50)*	W
24	400**25**	Temperature offset applied on external temperature.	Signed *Scale 100*	-500 to 500 *Value x 100 (e.g. 0.5°C = 50)*	W
25	400**26**	Temperature setpoint used during the occupancy period of the day.	Unsigned *Scale 10*	Range: 400**26** to 400**27** *Value x 10 (e.g. 20°C = 200)*	W
26	400**27**	Minimum temperature setpoint used during the day.	Unsigned *Scale 10*	Range: 100 to 400**27** *Value x 10 (e.g. 10°C = 100)*	W
27	400**28**	Maximum temperature setpoint used during the day.	Unsigned *Scale 10*	Range: 400**26** to 400 *Value x 10 (e.g. 40°C = 400)*	W
28	400**29**	Cooling setpoint during No Occupancy / Night Set Back	Unsigned *Scale 10*	Range: 400**29** to 400 *Value x 10 (e.g. 22°C = 220)*	W
29	400**30**	Heating setpoint during No Occupancy / Night Set Back	Unsigned *Scale 10*	Range: 100 to 400**28** *Value x 10 (e.g. 16°C = 160)*	W
30	400**31**	Cooling demand for proportional band 1.	Unsigned *Scale 10*	5 to 50 *Value x 10 (e.g. 0.3°C = 3)*	W

Protocol Address	Convention Notation	Description	Data Type	Range	Writable
31	40032	Heating demand for proportional band 1.	Unsigned *Scale 10*	5 to 50 *Value x 10 (e.g. 0.3°C = 3)*	W
32	40033	Cooling dead band for proportional band 1.	Unsigned *Scale 10*	0 to 50 *Value x 10 (e.g. 0.3°C = 3)*	W
33	40034	Heating dead band for proportional band 1.	Unsigned *Scale 10*	0 to 50 *Value x 10 (e.g. 0.3°C = 3)*	W
34	40035	Changeover temperature setpoint.	Unsigned *Scale 10*	100 to 400 *Value x 10 (e.g. 12°C = 120)*	W
35	40036	Night setback override delay in minutes.	Unsigned	0 to 180 minutes	W
36	40037	Integral time factor for heating in seconds.	Unsigned	0 to 250 seconds	W
37 to 38	40038 to 40039	*Reserved address space*			
39	40040	Occupancy Delay Mode in minutes.	Unsigned	0 to 180 minutes	W
40	40041	Cooling demand for cooling ramp 2.	Unsigned *Scale 10*	0 to 1000% *Value x 10 (e.g. 30% = 300)*	RO
41	40042	Proportional band for cooling ramp 2.	Unsigned *Scale 10*	5 to 50 *Value x 10 (e.g. 0.2°C = 2)*	W
42	40043	Dead band for cooling ramp 2.	Unsigned *Scale 10*	0 to 50 *Value x 10 (e.g. 0.2°C = 2)*	W
43	40044	Heating demand for heating ramp 2.	Unsigned *Scale 10*	0 to 1000% *Value x 10 (e.g. 30% = 300)*	W
44	40045	Proportional band for heating ramp 2.	Unsigned *Scale 10*	5 to 50 *Value x 10 (e.g. 0.2°C = 2)*	W
45	40046	Dead band for heating ramp 2.	Unsigned *Scale 10*	0 to 50 *Value x 10 (e.g. 0.2°C = 2)*	W
46	40047	Changeover demand for the VAV box.	Unsigned *Scale 10*	0 to 1000% *Value x 10 (e.g. 30% = 300)*	RO

Protocol Address	Convention Notation	Description	Data Type	Range	Writable
47	400**48**	Changeover proportional band: the range in which the controller modulates the cooling and heating output from 0 to 100%.	Unsigned *Scale 10*	5 to 50 *Value x 10 (e.g. 0.2°C = 2)*	W
48	400**49**	Changeover deadband: the range at which the controller takes no action when the temperature is above or below the setpoint.	Unsigned *Scale 10*	0 to 50 *Value x 10 (e.g. 0.2°C = 2)*	W
49	400**50**	AO1 min Vdc: minimum voltage of analog output 1.	Unsigned *Scale 10*	Range: 0 to reg. 400**52** *Value x 10 (e.g. 2 Volts = 20)*	W
50	400**51**	*Reserved address space*			
51	400**52**	AO1 max Vdc: maximum voltage of analog output 1.	Unsigned *Scale 10*	Range: reg. 400**50** to 100 *Value x 10 (e.g. 10 Volts = 100)*	W
52	400**53**	*Reserved address space*			
	∗ = The minimum and maximum voltages correspond to 0 to 100% demand. The minimum voltage is always applied to the output. The maximum voltage is applied when the demand reaches 100%. For reheat applications, we recommend leaving the minimum voltage at 0Vdc to avoid heating when the demand is 0%.				
53	400**54**	Time of numerical filter of delta pressure in seconds.	Unsigned	1 to 10 seconds	W
54	400**55**	Factor of V=K*sqrt(dP), where dP = 1. Only available on pressure independent model EVCB44NIT0S.	Unsigned	Range: 100 to 9995 CFM	W
55	400**56**	Minimum air flow for cooling. Only available on pressure independent model EVCB44NIT0S.	Unsigned	Range: 0 or (12.7%) Kfac to reg 400**57** CFM	W
56	400**57**	Maximum air flow for cooling. Only available on pressure independent model EVCB44NIT0S.	Unsigned	Range: reg 400**56** to reg 400**55** CFM	W
57	400**58**	Minimum air flow for heating. Only available on pressure independent model EVCB44NIT0S.	Unsigned	Range: 0 or (12.7%) Kfac to reg 400**59** CFM	W
58	400**59**	Maximum air flow for heating. Only available on pressure independent model EVCB44NIT0S.	Unsigned	Range: reg 400**58** to reg 400**55** CFM	W
59	400**60**	Integral time factor of air flow in minutes. Only available on pressure independent model EVCB44NIT0S.	Unsigned	0 to 60 minutes	W
60	400**61**	Actual air flow converted from delta pressure sensor. Only available on pressure independent model EVCB44NIT0S.	Unsigned	Range: 0 to reg 400**55** CFM	RO

Protocol Address	Convention Notation	Description	Data Type	Range	Writable
61	40062	Air flow calculated from system demand. Only available on pressure independent model EVCB44NIT0S.	Unsigned	Range: 0 to 9999 CFM	RO
62	40063	Configuration value for Air Flow Max used during airflow balancing sequence. Refer to EVCB-Airflow Balance Instructions. Only available on pressure independent model EVCB44NIT0S.	Unsigned	Range: 0 to 9999 CFM	W
63	40064	Analog output 1 value.	Unsigned *Scale 10*	Unit: Volt, Range: reg 40050 to reg 40052 *Value x 10 (e.g. 5 Volts = 50)*	W
64 to 72	40065 to 40073	*Reserved address space*			
73	40074	Integral time factor for cooling in seconds.	Unsigned	0 to 250 seconds	W
74	40075	Motor position.	Unsigned	0 to 100%	RO
75 to 80	40076 to 40081	*Reserved address space*			
81	40082	Air flow offset calibration. Refer to EVCB-Airflow Balance Instructions. Only available on pressure independent model EVCB44NIT0S.	Signed	500 to 500 CFM	W
82 to 83	40083 to 40084	*Reserved address space*			RO
84	40083	Configuration value for Air Flow Min used during airflow balancing sequence. Refer to EVCB-Airflow Balance Instructions. Only available on pressure independent model EVCB44NIT0S.	Unsigned	Range: 0 to 9999 CFM	W
85 to 95	40086 to 40096	*Reserved address space*			RO
96	40097	Network fallback timeout Present Value in minutes.	Unsigned	0 to 60 minutes	W
97	40098	*Reserved address space*			
98	40099	Maximum range of the CO2 sensor connected to AI1.	Unsigned	100 to 5000 PPM	W
99	40100	Maximum concentration of CO2 before the EVC activates an alarm.	Unsigned	Range: 100 to the greater ppm value between 2000 and reg 40099.	W

Protocol Address	Convention Notation	Description	Data Type	Range		Writable
100	40**101**	System Option 1.	Bit String	**B3-B6, B13-B14: Reserved** **B0: Tstat temperature units** *0 = Celsius; 1 = Fahrenheit* **B1: Modbus temperature units** *0 = Celsius; 1 = Fahrenheit* **B2: Temperature setpoint lock** *0 = Unlocked; 1 = Locked* **B7: Freeze protection** *0 = Disabled; 1 = Enabled*	**B8: User system off mode** *0 = User can set Tstat to OFF* *1 = User cannot set Tstat OFF* **B9: Keypad bottom left lock** *0 = Unlocked; 1 = Locked* **B10:Keypad upper left lock** *0 = Unlocked; 1 = Locked* **B11: Keypad arrows lock** *0 = Unlocked; 1 = Locked* **B12: Program lock** *0 = Unlocked; 1 = Locked* **B15: Schedule** *0 = Disabled; 1 = Enabled*	W
101	40**102**	System Option 2. B15: Configuration value of the fan operation when an output ramp is configured with the option "Fan On". When set to (0) On, the fan is continuously in operation even when EVC is off. When set to (1) Off, the fan turns off during the following conditions: • User System Mode is set to OFF, when in night setback mode, scheduler forces the EVC OFF Φ Only available on pressure independent model EVCB44NIT0S.	Bit String	**B0-B1, B5-B9, B13-B14: Reserved** **B2: Auto baud rate detection** *0 = Enabled; 1 = Disabled* **B3: Night setback mode** *0 = Tstat ON; 1 = Tstat OFF* **B4: AO1 direction** *0 = Direct; 1 = Reverse*	**B10: Display RH**Φ *0 = No; 1 = Yes* **B11: Pressure mode select**Φ *0 = independent;1 = dependent* **B12: Auto pressure mode**Φ **change** *0 = Enabled; 1 = Disabled* **B15: Fan always "on" mode** 0 = Always on; 1 = Follow NSB/NoOcc	W
102	40**103**	Status value of the actual changeover control mode.	Unsigned	0 = Cooling 1 = Heating		RO
103	40**104**	System command status.	Unsigned	0 = No Command 1 = AirFlow 1 Balancing 4 = AirFlow 2 Balancing		W
104	40**105**	*Reserved address space*				
105	40**106**	Occupancy or night setback mode commands.	Unsigned	1 = Reserved 2 = Off 3 = Occupancy	4 = NoOccupancy 5 = Day 6 = Night	W

Protocol Address	Convention Notation	Description	Data Type	Range		Writable
106	40**107**	*Reserved address space*				
107	40**108**	Analog input 1 signal. * STFL is available only on pressure independent model EVCB44NIT0S.	Unsigned	1 = OFF 2 = ETS (external temp) 3 = SENS (changeover sensor) 4 = NoCL (normally cool) 5 = NoHT (normally heat) 6 = STFL* (setpnt airflow 0-10Vdc) 7 = CO2 (carbon dioxide) 8 = AST (air supply temp sensor) 9 = mor (motor position)	10 = EXT50K (external 50KΩ sensor) 11 = TSTAT temp sensor (thermostat temperature sensor) 12 = TSTAT Setpoint(thermostat setpoint 0-10Vdc) 13 = TSTAT Setpoint 2-10V (thermostat setpoint 2-10Vdc)	W
108	40**109**	User System Control Mode.	Unsigned	1 = AUTO 2 = HEAT	3 = COOL 4 = OFF	W
109	40**110**	Sets the permissions or restrictions to change the system control mode by the user.	Unsigned	1 = AUTO 2 = HEAT	3 = COOL 4 = COOL-HEAT 5 = AUTO-LOCK	W
110	40**111**	Indicates the status of the Night Setback mode.	Unsigned	1 = Day 2 = Night 3 = Derogation		RO
111 to 112	40**112 to** 40**113**	*Reserved address space*				
113	40**114**	Occupancy status of the zone.	Unsigned	1 = No Occupancy 2 = Occupancy 3 = Derogation		RO
114	40**115**	AO1: Analog output 1 control ramp For pressure independent model EVCB44NIT0S, the default value is Hr1. *STFL is available only on pressure independent model EVCB44NIT0S.	Unsigned	1 = OFF 2 = CR1 (cooling ramp 1) 3 = CR2 (cooling ramp 2) 4 = HR1 (heating ramp 1) 5 = HR2 (heating ramp 2) 6 = ArFL (airflow reading)	7 = CO2 (carbon dioxide) 8 = STFL* (setpnt airflow 0-10Vdc) 9 – 11 = reserved 12 = Fan Auto (follow demand) 13 = Fan On (always on)	W
115 to 123	40**116 to** 40**124**	*Reserved address space*				
124	40**125**	Pressure independent output selection for VAV damper actuator.	Unsigned	3 = Floating1 4 = Floating2 5 = Motor		W

Protocol Address	Convention Notation	Description	Data Type	Range	Writable
125	40**126**	Motor ramp: Configuration of the ramp used to modulate the actuator based on demand. *STFL is available only on pressure independent model EVCB44NIT0S.	Unsigned	1 = reserved 2 = CR1 (cooling ramp 1) 3 = CR2 (cooling ramp 2) 4 = HR1 (heating ramp 1) 5 = HR2 (heating ramp 2) 6 – 7 = reserved 8 = STFL* (setpnt airflow 0-10Vdc) 9 = COR (changeover ramp) 10 = CH1 (cool/heat 1) 11 = ANLG (analog 0-10Vdc) 12 – 13 = reserved	W
126	40**127**	Changeover control mode status that indicates the source of changeover values.	Unsigned	1 = Local 2 = Cooling 3 = Heating	W
127 to 129	40**128 to** 40**130**	*Reserved address space*			
130	40**131**	Selected temperature control source (in Programming mode).	Unsigned	1 = Internal Temperature 2 = External Temperature 3 = Remote Temperature 4 = Average Temperature 5 = Maximum Temperature	W
131	40**132**	Airflow balance mode enter the balancing mode to adjust air flow factor.	Unsigned	1 = Close 2 = Minimum Flow 3 = Maximum Flow 4 = Full Open	W
132	40**133**	*Reserved address space*			
133	40**134**	Configuration to set the motor position in night setback mode.	Unsigned	1 = Auto 2 = Open	W
134	40**135**	*Reserved address space*			
135	40**136**	Floating time 2: Time in seconds required by the actuator to complete a 90° run.	Unsigned	15 to 250 seconds	W
136	40**137**	Minimum motor position in percentage of stroke for cooling.	Unsigned	0 to 100%	W
137	40**138**	Minimum motor position in percentage of stroke for heating.	Unsigned	0 to 100%	W
138	40**139**	Airflow Hysteresis Stop in percentage.	Unsigned	1 to 100%	W
139	40**140**	Airflow Hysteresis Start in percentage.	Unsigned	reg 40**139** to 100%	W
140	40**141**	Airflow scale.	Unsigned	1 = Scale1 2 = Scale10 3 = Scale100	W
141	40**142**	Airflow fault deadband in percentage	Unsigned	1 to 30%	W

Protocol Address	Convention Notation	Description	Data Type	Range	Writable
142	40**143**	Airflow fault error in percentage	Unsigned	0 to 100%	W
143	40**144**	Airflow fault hysteresis in percentage.	Unsigned	1 to 30%	W
144	40**145**	Airflow fault time.	Unsigned	2 to 59 minutes	W
145	40**146**	CL_HT SwitchTimer, waiting time before switching between the heating and cooling modes.	Unsigned	0 to 120 minutes	W
146	40**147**	CL_HT SwitchTimerCount, countdown to indicate the swap between heating and cooling modes.	Unsigned	0 to 4,294,967,295 seconds	RO
147 to 152	40**148** to 40**153**	*Reserved address space*			
153	40**154**	Overheat status.	Unsigned	1 = OverHeatNormal 2 = OverHeat1 3 = OverHeat2 4 = OverHeatAll	RO
154	40**155**	Configuration to override the motor position.	Unsigned	1 = Auto 2 = Open 3 = Close 4 = AirFlowCoolMin 5 = AirFlowCoolMax	W
155	40**156**	Information displayed on the TRL/TDU.	Unsigned	1 = Temp Demand 2 = Setpoint Demand 3 = Temp 4 = Setpoint 5 = Off	W
156	40**157**	*Reserved address space*			
157	40**158**	*Reserved address space*			
158	40**159**	System Options 3	Bit String	**B0-B1, B4-B6, B8, B11-B15: Reserved** **B2: CO_2 Display** *0 = No; 1 = Yes* **B3: CO_2 Control Source** *0 = Analog; 1 = TRLG* **B7: Occupancy Control Source** *0 = Reserved; 1 = Intern Sensor* **B9: Motor Position Control Temperature Fault** *0 = Close; 1 = Open* **B10: CO_2 Control Mode** *0 = Open; 1 = Control ramp*	W

Protocol Address	Convention Notation	Description	Data Type	Range	Writable
159	40**160**	System Options 4	Bit String	**B0 – B15: Reserved**	RO
160	40**161**	Internal CO2 reading from digital room sensor. If not available, the value will be fixed to 0x7FFF (32767)	Unsigned	0 to 2000 ppm	RO
161	40**162**	*Reserved address space*			
162	40**163**	Internal VOC sensor reading in ppb from the digital room sensor.	Unsigned	1 to 60000 ppb	RO
163	40**164**	Internal PIR sensor reading from the digital room sensor.	Unsigned	0 = NoOccupancy 1 = Occupancy	RO
164	40**165**	Occupancy minimum time in minutes.	Unsigned	0 to 240 minutes	W
165	40**166**	Configuration value of the minimum position in cooling/heating mode in %.	Unsigned	0 to 100 %	W
166	40**167**	Control SetPoint.	Unsigned *Scale 1*	10 to 40 *Value x 1 (e.g. 30°C = 30)*	RO
167	40**168**	CO2 ramp proportional band	Unsigned *Scale 1*	50 to 250 ppm Value x 1 (e.g. 50ppm = 50)	W
168	40**169**	CO2 ramp dead band	Unsigned *Scale 1*	10 to 50 ppm Value x 1 (e.g. 50ppm = 50)	W
169	40**170**	Temperature sensor combination	Unsigned	1 = TSTAT+AI1 2 = TSTAT 3 = TSTAT+AI1 4 = AI1	W
170	40**171**	Average temperature	Signed *Scale 100*	-4000 to 10000 *Value x 100 (e.g. 5°C = 500)*	RO
171	40**172**	Maximum temperature	Signed *Scale 100*	-4000 to 10000 *Value x 100 (e.g. 5°C = 500)*	RO
172	40**173**	*Reserved address space*			

Notes

neptronic®

400 Lebeau blvd, Montreal, Qc, H4N 1R6, Canada
neptronic.com
Toll free in North America: 1-800-361-2308
Tel.: (514) 333-1433
Fax: (514) 333-3163
Customer service fax: (514) 333-1091
Monday to Friday: 8:00am to 5:00pm (Eastern time)