

#### Models

EVCB14NIT4X (4 TRIACS / independent / external motor)

\*For use with external floating or modulating actuators

TRL24 (Thermostat 2x4)

TRLH24 (Thermostat 2x4 with Humidity)
TRLG24 (Thermostat 2x4 with CO2)

TRLGH24 (Thermostat 2x4 with CO2 and Humidity)

## **Description**

The EVCB Series is a combination controller and thermostat with support for networked communications via the BACnet MS/TP or Modbus protocol. The Networkable VAV Controller is designed for simple and accurate control of any variable air volume box in a number of zone control configurations. Its field configurable algorithms enable versatile implementation of required control sequences.

#### **Features**

- Field configured VAV algorithms, inputs and outputs
- Control external actuators using analog (0-10Vdc, adjustable) or floating signals with feedback
- On board differential pressure sensor
- Select direction on analog outputs
- Simple air balancing and commissioning via thermostat
- Configurable PI (Proportional-Integral) function
- Independent, configurable proportional control band and dead band per ramp
- Activate output with CO<sub>2</sub> sensor from TRL or external input
- Selectable internal or external temperature sensor (10KΩ)
- Changeover by contact or external temperature sensor
- Internal and external temperature sensor calibration
- Freeze protection
- Removable, raising clamp, non-strip terminals

#### **Operational Features**

- Backlit LCD with simple icon and text driven menus
- · Select thermostat's default display
- Network service port via on-board mini USB connector
- Manual night set back or no occupancy override
- Multi level lockable access menu and setpoint
- Selectable Fahrenheit or Celsius scale
- 3-wire connection to controller and 4 push buttons

# Networkable VAV Controller

Specification and Installation Instructions



**EVCB14NIT4X / TRL24 Series** 

## **Network Communication**

- BACnet MS/TP or Modbus communication port
- Select MAC address via DIP switch or via network
- Automatic baud rate detection

#### **BACnet MS/TP®**

- Automatic device instance configuration
- Copy & broadcast configuration via thermostat menu or via BACnet to other controllers
- BACnet scheduler
- Firmware upgradeable via BACnet
- Support COV (change of value)

#### **Modbus**

- Modbus @ 9600, 19200, 38400 or 57600 bps
- RTU Slave, 8 bits (configurable parity and stop bits)
- · Connects to any Modbus master

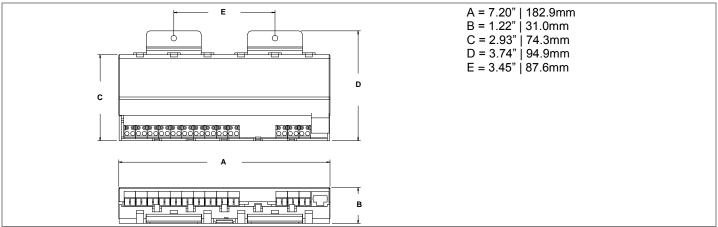
# **Controller Specifications**

Description	EVCB14NIT4X
Power consumption	10 VA max
Power supply	22 to 26 Vac 50/60 Hz
Innuto	2 Universal inputs (Thermistor 10KΩ Type 3, digital 24Vac/dry contact, or 0-10Vdc)
Inputs	2 digital inputs
On-board differential pressure sensor	0-1.0" WC
	2 analog outputs (0-10 Vdc or 2-10Vdc; selectable)
Outputs	4 TRIAC outputs 24 Vac, 500mA max thermal fuse in series with each TRIAC output (on/off, pulse, or 2 floating outputs)
Real Time Clock	Real-time clock (RTC) with super capacitor backup (approximately 3 days)
BACnet	BACnet® MS/TP @ 9600, 19200, 38400 or 76800 bps (BAS-C)
Modbus	Modbus RTU slave @ 9600, 19200, 38400 or 57600. Selectable parity and stop bit configuration:  No parity, 2 stop bit   Even parity, 1 stop bit   Odd parity, 1 stop bit
Communication connection	24 AWG twisted-shield cable (Belden 9841 or equivalent). Max 0ft (15m) between controller and thermostat
Electrical connection	0.8 mm <sup>2</sup> [18 AWG] minimum
Operating temperature	0°C to 50°C [32°F to 122°F]
Storage temperature	-30°C to 50°C [-22°F to 122°F]
Relative Humidity	5 to 95% non condensing
Weight	1.8 kg. [4 lb]



Specification and Installation Instructions

## **Dimensions**

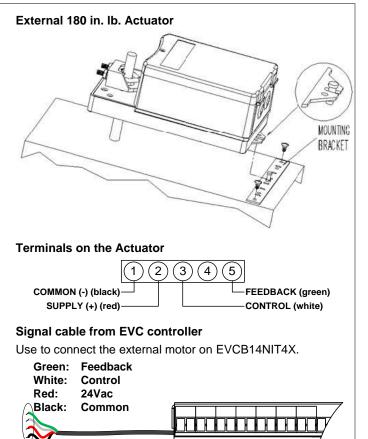


## **Mechanical Installation**

- Manually close the damper blades and position the actuator to 0° or 90°.
- 2. Slide the actuator onto the shaft.
- 3. Tighten the nuts on the "U" bolt to the shaft with an 8mm wrench to a torque of 150 in.lb. [17 Nm].
- Slide the mounting bracket under the actuator. Ensure free movement of the slot at the base of the actuator. Place the bracket pin at mid distance of the slot.
- 5. Affix the bracket to the ductwork with #8 self-tapping screws.
- Connect the cable from the EVC to the terminal in the actuator as shown.



Do not press the clutch when the actuator is powered.



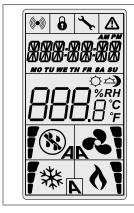


Specification and Installation Instructions

# **Thermostat Specifications**

Description	TRL24 / TRLH24 / TRLG24 / TRLGH24					
Temperature Sensor						
Setpoint range	10°C to 40°C [50°F to 104°F]					
Control accuracy	Temperature: ±0.4°C [0.8°F]					
Display resolution	±0.1°C [0.2°F]					
Humidity Sensor (TRLH24 and	I TRLGH24 only)					
Sensor range	5 to 95%RH					
Display resolution	0.1%					
CO2 Sensor (TRLG24 and TRI	LGH24 only)					
Operating principle	Self-calibrating, Non-Dispersive Infrared (NDIR)					
Sensor Range	0 to 2000 ppm					
Setpoint range	100 to 2000 ppm					
Accuracy	±30 ppm ±3% of reading					
Response time	2 minutes by 90%					
Display resolution	1 ppm					
Electrical connection	3 wires to VAV controller and 2 wires to BACnet/Modbus network   0.8 mm² [18 AWG] minimum					
Network service port	Mini USB connector					
Power supply	24Vac or 24Vdc					
Power consumption	1VA					
Operating temperature	0°C to 50°C [32°F to 122°F]					
Storage temperature	-30°C to 50°C [-22°F to 122°F]					
Relative humidity	5 to 95 % non condensing					
Enclosure protection	IP 30 (EN 60529)					
Weight	120 g. [0.25 lb]					
Dimensions	A = 2.85"   73mm B = 4.85"   123mm C = 1.00"   24mm D = 2.36"   60mm E = 3.27"   83mm					

## **TRL24 Interface**



_						
	<b> *</b>	Cooling ON A: Automatic		Communication Status	$\triangle$	Alarm status
	I & A	Heating ON A: Automatic	6	Menu Locked	)	Energy saving mode (NSB or Occupancy)
	A-27	Fan ON A: Automatic	4	Programming mode (Technician setting)	%RH	Percentage of humidity
					°C <sub>or</sub> °F	°C: Celsius scale



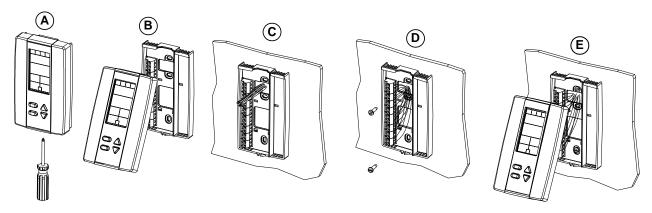
## Specification and Installation Instructions

# **Mounting Instructions**



CAUTION: Remove power to avoid a risk of malfunction.

- A. Remove the captive screw that's holding the base and the front cover of the unit together.
- B. Lift the front cover of the unit to separate it from the base.
- C. Pull all wires through the holes in the base.
- D. Secure the base to the wall using wall anchors and screws (supplied). Make the appropriate connections.
- E. Mount the control module on the base and secure using the screw.



## **BACnet or Modbus Address DIP Switch (DS1)**

MAC address for communication, are selectable by DIP switch using binary logic. If you do not change device instance in program mode, it will be automatically modified according to the MAC address.



Note: Avoid using addresses above 246 when selecting Modbus MAC address.

MAC Address	DS.1 = 1	DS.2 = 2	DS.3 = 4	DS.4 = 8	DS.5 = 16	DS.6 = 32	DS.7 = 64	DS.8 = 128	Default Device Instance
0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	153000
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	153001
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	153002
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	153003
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	153004
126	OFF	ON	ON	ON	ON	ON	ON	OFF	153126
127	ON	ON	ON	ON	ON	ON	ON	OFF	153127

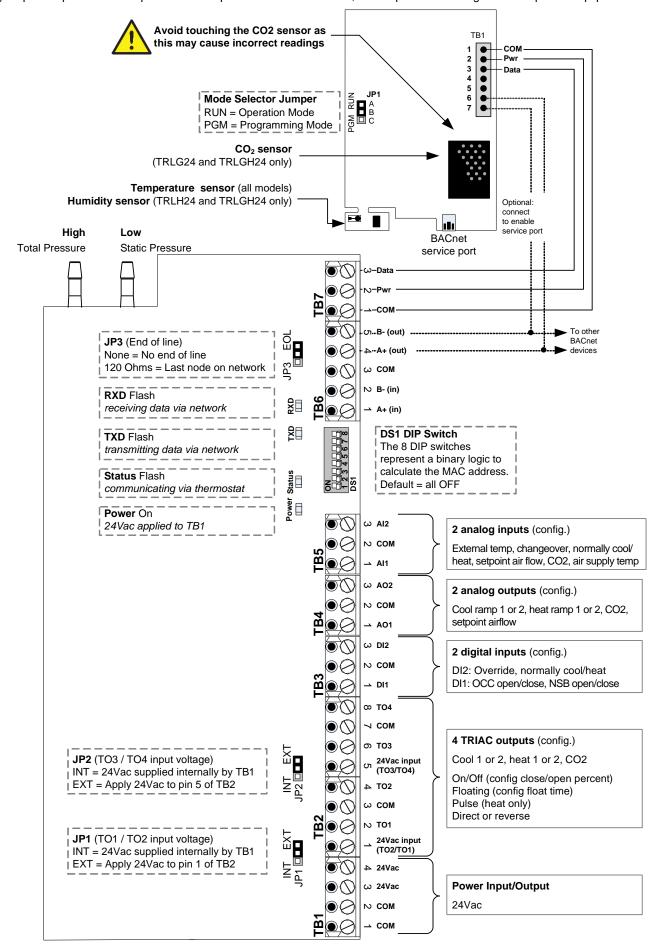
<sup>\*</sup> Slave addresses available by setting DS.8 to ON

# neptronic

## **Networkable VAV Controller**

Specification and Installation Instructions

We strongly recommend that all Neptronic products be wired to a separate grounded transformer and that transformer shall service only Neptronic products. This precaution will prevent interference with, and/or possible damage to incompatible equipment.

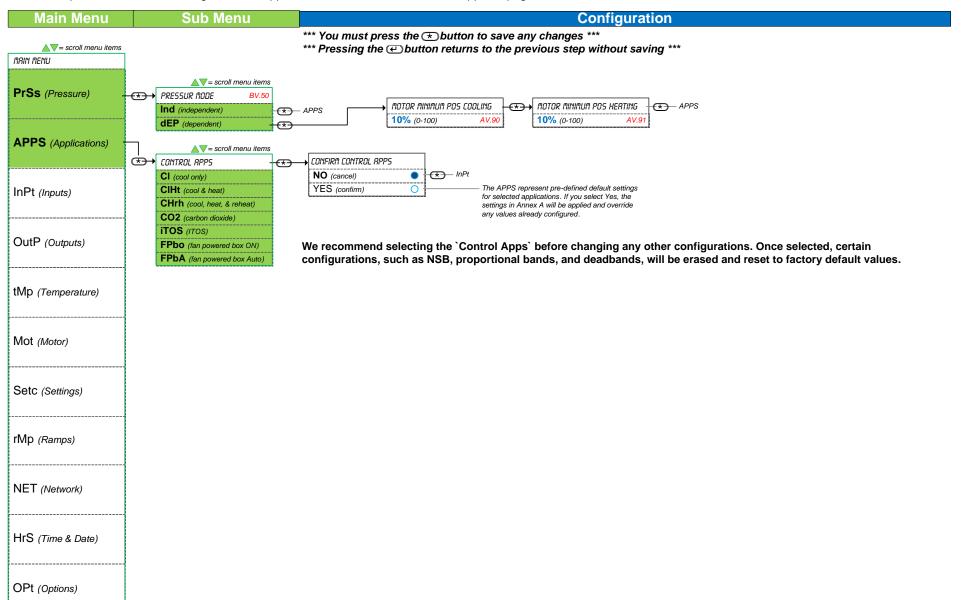




Specification and Installation Instructions

# **Pressure & Applications – Menu (1 of 7)**

For a description of the default settings for each application refer to Annex A: Control Apps on page 17.





Specification and Installation Instructions

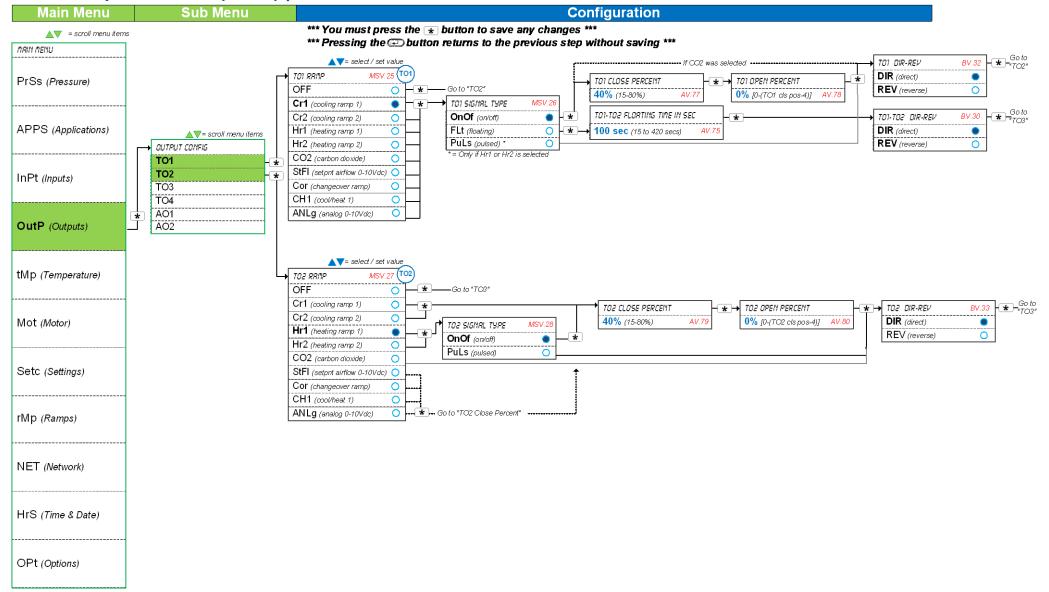
## Inputs - Menu (2 of 7) | Al1, Al2, Dl1 and Dl2

Sub Menu Configuration Main Menu \*\*\* You must press the button to save any changes \*\*\* \*\*\* Pressing the 🗗 button returns to the previous step without saving \*\*\* ▲▼= scroll menu items (AI1 RI1 SIGNAL TYPE MSV.1 MRIN MENU OFF (disabled) (\*) Go to "AI2" ▲▼= scroll menu items EtS (external temp sensor) PrSs (Pressure) CONFIG INPUT SENs (sensor) CH OVER SETPNT <del>(X)</del> AI1 ₹ NoCl (normally cool) 24°C 0 AV.58 AI2 NoHt (normally heat) Appears only if using TRL or TRLH 0  $\left( \star \right)$ Go to "AI2" For TRLG and TRLGH go to "Opt" menu DI1 StFI (setont airflow 0-10Vdc) APPS (Applications) DI2 (X) CO2 (carbon dioxide) <del>(★→→</del> CO2 MRXIMUM RRNGE € CO2 SETPNT CO2 DISPLAY BV.65 <del>(★)</del> Go to "AI2" 2000 ppm AV.140 800 ppm AV.141 NO ASt (Air supply temp sensor)○ **(**\*) mor (Motor position) \* Go to "AI2" To display CO2 without generating YES an alarm, use a setpoint higher than InPt (Inputs) ▲▼= select / set value 2000ppm or the CO2 Maximum When set to YES, the unit will not display Range (highest of the 2). the time when in Operation Mode RIZ SIGNAL TYPE OFF (disabled) Go to "DI1" EtS (external temp sensor) OutP (Outputs) SENs (sensor) CH OVER SETPNT <del>- (★) -</del> Go to "DI1" NoCl (normally cool) 24°C AV.58 \* Go to "DI1" Appears only if using TRL or TRLH NoHt (normally heat) 0 For TRLG and TRLGH go to "Opt" menu. StFI\*(setpnt airflow 0-10Vdc) tMp (Temperature) CO2 (carbon dioxide) CO2 MAXIMUM RANGE € CO2 SETPNT CO2 DISPLAY BV.65 <del>(★)</del> Go to "DI1" 2000 ppm 800 ppm NO ASt (Air supply temp sensor) (\*) AV.140 AV.141 To display CO2 without generating mor (Motor position) ★ Go to "DI1" YES Mot (Motor) an alarm, use a setpoint higher than 2000ppm or the CO2 Maximum When set to YES, the unit will not display ▲▼= select / set value Range (highest of the 2). the time when in Operation Mode NSB-OCC CONTRCT MSV.10(DI Go to "DI2" Setc (Settings) OCCo (occupancy open) NO OCC OVERIDE DELAY MIN €x→ NO OCC HERTING SETPNT NO OCC COOLING SETPNT OCCc (occupancy closed) 120 min (0-180) 16°C / 61°F 28°C / 82°F AV.18 AV.61 AV.19 nSbo (night set back open) NSB OVERIDE DELRY MIN <del>∞>></del> NSB MODE BV.20 nSbc (night set back closed) rMp (Ramps) 120 min (0-180) AV.60 StP (setpoint) 0 Go to NET (Network) NSB COOLING SETPNT NSB MOTOR MODE MSV.36 NSB HERTING SETPNT ▲▼= select / set value 16°C / 61°F 28°C / 82°F Auto DI2 SIGNAL TYPE AV.19 AV.18 (\*) Go to "OutP" **OPEn** 0 OFF Ovrd (override all) <del>-(★) |</del> DI2 CONTRCT <del><≠>→</del> DI2 DELRY SECONDS BV.36 € Go to "OutP" HrS (Time & Date) OVH1 (override heat 1) NO (normally open) • 120 (0-3600) AV.64 OVH2 (override heat 2) 0 NC (normally closed) 0 OVHt (override all heat) OPt (Options) NoCl (normally cool) Go to "OutP" NoHt (normally heat,



Specification and Installation Instructions

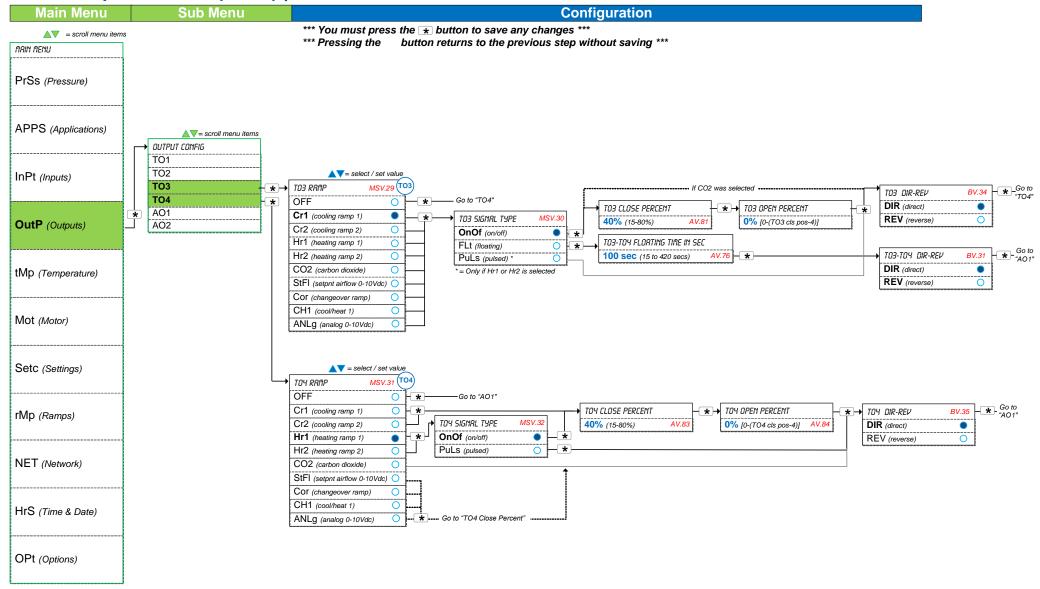
# TRIAC Outputs - Menu (3 of 7) | TO1 and TO2





Specification and Installation Instructions

# TRIAC Outputs - Menu (4 of 7) | TO3 and TO4





Specification and Installation Instructions

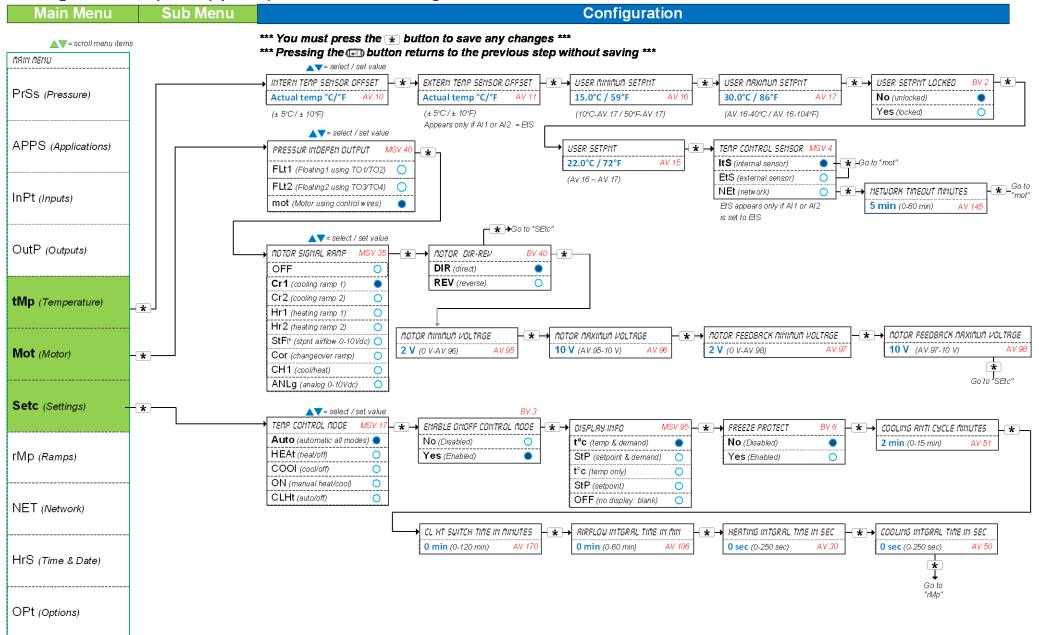
# Analog Outputs - Menu (5 of 7) | AO1 and AO2

Main Menu Sub Menu Configuration \*\*\* You must press the \*\* button to save any changes \*\*\* \*\*\* Pressing the button returns to the previous step without saving \*\*\* ▲▼= scroll menu items ▲▼= select / set value MRIN MENU AO1 RAMP Go to "AO2" OFF ● <del>| ▼ →</del> RO1 MINIMUM VOLTRGE PrSs (Pressure) Cr1 (cooling ramp 1) -<del>(★→)</del> RO1 MRXIMUM VOLTRGE (\*→ RO1 DIR-REV \* Go to "AO2" Cr2 (cooling ramp 2) 0 0.0 Vdc 10.0 Vdc DIR (direct) AV.70 AV.71 Hr1 (heating ramp 1) REV (reverse) 0 Hr2 (heating ramp 2) 0 ▲▼= scroll menu items APPS (Applications) CO2 (carbon dioxide) 0 OUTPUT CONFIG StFI (stont airflow 0-10Vdc) TO1 TO2 InPt (Inputs) TO3 TO4 ▲▼= select / set value A01 ROZ RRMP AO2 OutP (Outputs) ÷ OFF O + O "tmp" Cr1 (cooling ramp 1) \*\*\*\* ROZ MAXIMUM VOLTAGE RO2 DIR-REV BV.26 <del>(★)</del>Go to "tmp" Cr2 (cooling ramp 2) 0.0 Vdc 10.0 Vdc DIR (direct) • AV.72 AV.73 Hr1 (heating ramp 1) REV (reverse) tMp (Temperature) 0 Hr2 (heating ramp 2) CO2 (carbon dioxide) StFI (stpnt airflow 0-10Vdc) Mot (Motor) Setc (Settings) rMp (Ramps) NET (Network) HrS (Time & Date) OPt (Options)



Specification and Installation Instructions

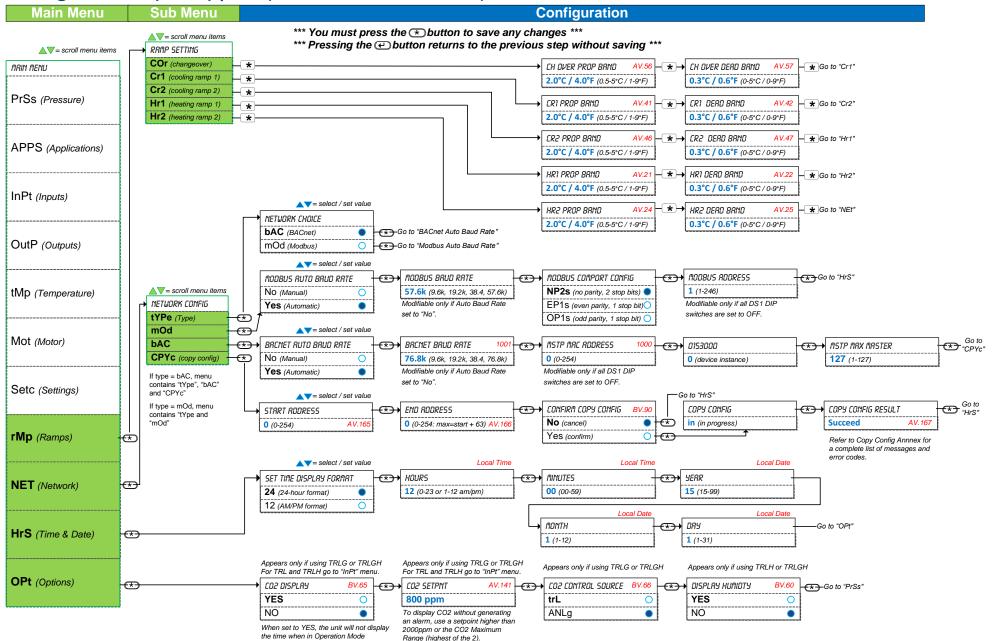
# Settings - Menu (6 of 7) | Temp, Motor, and Settings





Specification and Installation Instructions

# Settings - Menu (7 of 7) | Ramps, Network, Time, and Options





## Specification and Installation Instructions

## **Operation Menus**

This menu is accessible through normal operation mode. The Mode Selector jumper (JP1) of the thermostat must be set to the "RUN" position (Operation Mode). Refer to Wiring on page 5.

- Press the [\*] and [4] buttons simultaneously for 5 seconds. The "ENTER PRSSWORD" screen appears.
- Enter the password within 1 minute by using the arrow keys to increase or decrease the value and the [\*] and [4] buttons to 2. toggle between the digits.
  - Password **372** = Temperature Offset Menu
  - Password 637 = Network Settings Menu
  - c. Password **757** = Airflow Balance Mode
- If you enter the wrong password, the thermostat displays "Eror" and returns to Operation Mode. The thermostat will return to normal mode if you navigate through the entire menu and do not make any selection, or if you do not press any key for 5 minutes. The changed values will be saved automatically.

## Menu 372 - Temperature Offset

## "Intern temp sensor offset"

Range: 10 to 40°C Max ± 5°C Offset:

[50 to 104°F]

Increment:

0.1°C [0.2°F]

Compare the displayed temperature reading with a known value from a thermometer. To offset or calibrate the sensor, use the arrows key to set the desired temperature reading. This is useful for thermostats installed in areas where the temperature read is slightly different than the room's actual temperature. For example, a thermostat placed right under the air diffuser. If the thermostat is set to use an external temperature sensor (EtS), the thermostat displays "OFF".

#### "EXTERN TEMPER SENSOR OFFSET"

Range: 0 to 50°C Offset: Max ±5°C [41 to 122°F]

Increment:

0.1°C

[0.2°F]

This option appears if you've set one of the analog inputs to EtS (External temperature sensor). When the thermostat is connected to the appropriate analog input, the display shows the temperature read by the external temperature sensor. Adjust the offset by comparing it with a known value (e.g. thermometer). If the sensor is not connected or short circuited, then the unit displays the sensor's limit.

#### "INPUT3 READING" 3.



Range:

250mV (0") to 4000mV (1")

Displays the voltage output value in mV of the pressure sensor.

#### "INPUT3 MINIMUM READING

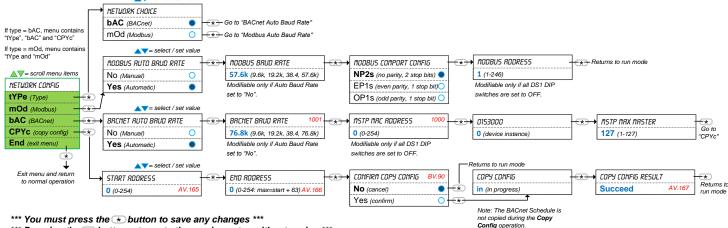


10mV to 180mV Range:

Default: 60mV

This setting represents the deadband of the pressure sensor in mV. For advanced users or special applications only. We recommend that you use the default setting of 60mV.

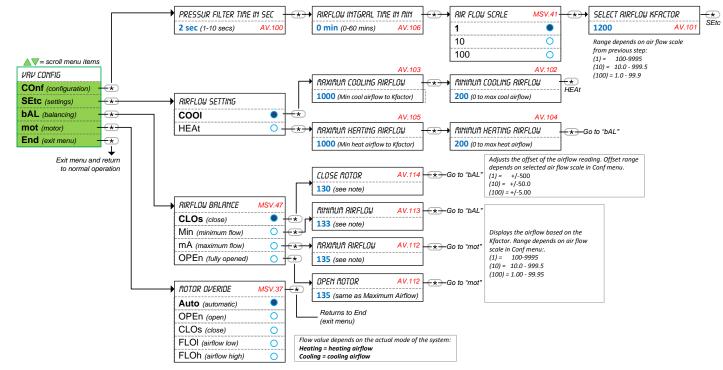
#### Menu 637 – Network Settings





## Specification and Installation Instructions

#### Menu 757 - Airflow Balance Mode



<sup>\*\*\*</sup> You must press the \*\* button to save any changes \*\*\*

<sup>\*\*\*</sup> Pressing the 🕘 button returns to the previous step without saving \*\*\*



Note: Refer to EVCB-Airflow Balance Instructions on Neptronic website for further information on airflow balancing function.

# **Reset to Factory Default Settings**



This will erase all actual configurations and replace them with the factory default settings.

- The Mode Selector jumper (JP1) of the thermostat must be set to the "RUN" position (Operation Mode). Refer to Wiring on page 5.
- 2. During the power up sequence of the controller and thermostat (when the firmware versions are displayed), press and hold both the 

  → and 

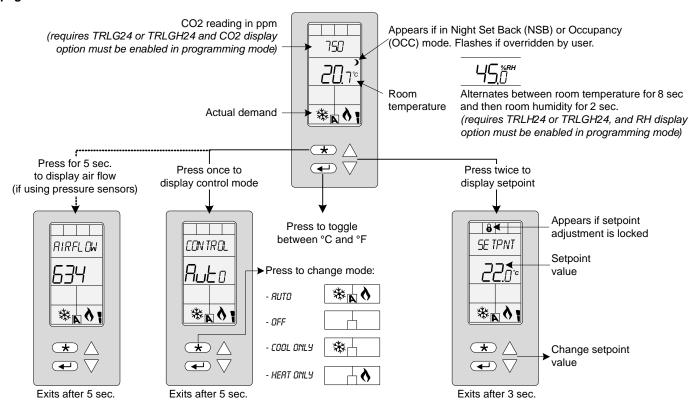
  → buttons.
- 3. The "ENTER PR55WORD" screen appears. Enter **372** within 1 minute by using the arrow keys to increase or decrease the value and the \*\infty\$ and \*\infty\$ buttons to toggle between the digits.



Specification and Installation Instructions

## **Operation Mode**

The Mode Selector Jumper (JP1) of the thermostat must be set to the "RUN" position (Operation Mode). Refer to Wiring on page 4.



## **Power Up**

Upon power up, the LCD illuminates and all segments appear for 2 seconds. The thermostat then displays its current version of the thermostat for 2 seconds followed by the current version of the controller for 2 seconds. Pressing any key on the thermostat illuminates the LCD for 4 seconds.

#### $CO_2$

If enabled via the configuration menu, the thermostat displays the CO2 reading on the first line above the temperature reading. If CO2 display is enabled, the time will not be displayed.

## **Temperature**

If enabled in the "Display Info" menu (see Settings – Menu (6 of 7) | Temp, Motor, and Settings on page 11), the thermostat displays the temperature reading. If the sensor is disconnected or short circuited, then the unit displays the sensor's limit. To toggle the temperature scale between °C and °F, press the button.

## **Temperature Setpoint**

To display the setpoint, press the  $\triangle$  or  $\nabla$  key twice. The set point appears for 5 seconds. To adjust the setpoint, press the arrow keys while the temperature is displayed. If the setpoint adjustment has been locked "SETPNT LOCKED", the lock  $\delta$  symbol appears.

#### **Humidity**

If enabled in the "Options" menu (see Settings – Menu (7 of 7) | Ramps, Network, Time, and Options on page 12), the thermostat displays the temperature reading for 8 seconds and then displays the humidity reading for 2 seconds. If the sensor is disconnected or short circuited, then the unit displays the sensor's limit.

## **Airflow and Air Supply Temperature**

Press and hold the button for 5 seconds and use the arrow keys to view the "RIRFLOW", "RIRFLOW SETPNT", and "RIR SUPPLY TEMP". After 5 seconds without any action, the thermostat returns to operation mode. The air supply temperature appears only if analog input Al1 or Al2 are configured with the AST option.



Specification and Installation Instructions

#### **Control Mode**

To access the Control Mode, press the button. The Control Mode appears for 5 seconds. Press the button to scroll through the following control modes. These options can vary depending on the options selected in "Temp Control Mode" and "Enable OnOff Control Mode".

- Auto (Automatic Cooling or Heating)
- Cooling only (on, with cooling symbol)
- Heating only (on, with heating symbol)
- OFF (if it is not disabled in Programming Mode)

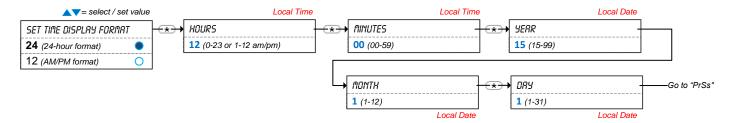
## Night Set Back (NSB) or Occupancy Mode

This function is only available if you set DI1 to **nSb** (Night set back contact) or **Occ** (occupancy mode). If the DI1 contact is triggered, the thermostat enters NSB or No Occupancy Mode (the **)** symbol appears) and uses the NSB or OCC heating and cooling setpoints.

If not locked, you can override the night set back or no occupancy mode for a predetermined period by pressing any of the 4 buttons. During the override period the **)** symbol will flash. If the **)** symbol does not flash, the override period is finished or the night set back or no occupancy override has been locked in programming mode.

#### **Set Time and Date**

- 1. Ensure that JP1 on the thermostat is set to run.
- 2. Press and hold the Dutton for 5 seconds
- 3. Use the arrow keys to set the desired value. Press the button to save and got to the next step. Press the button to go to the previous step without saving.





Specification and Installation Instructions

# **Annex A: Control Apps**

Refer to *Pressure & Applications – Menu (1 of 7)* on page 6 for more information. The available **Control Apps** vary according to the model

Description	CL (cool only)	CLHt (cool/heat)	CHrH (cool/heat/reheat)	CO2 (CO2)	ITOS (ITOS)	<b>FPbo</b> (fan powered ON)	<b>FPbA</b> (fan powered Auto)
Min. Setpoint	20°C (68°F)	20°C (68°F)	20°C (68°F)	20°C (68°F)	15°C (59°F)	15°C (59°F)	15°C (59°F)
Max. Setpoint	28°C (82°F)	28°C (82°F)	28°C (82°F)	28°C (82°F)	30°C (86°F)	30°C (86°F)	30°C (86°F)
Changeover Setpnt	24°C (75°F)	20°C (68°F)	20°C (68°F)	20°C (68°F)	24°C (75°F)	24°C (75°F)	24°C (75°F)
TO1 Ramp	HR1	CR1	HR1	CR1	OFF	HR1	HR1
TO1 Signal Type	On/Off	On/Off	On/Off	On/Off	On/Off	On/Off	On/Off
TO1 Close Pos.	40%	40%	40%	40%	40%	35%	35%
TO1 Open Pos.	0%	0%	0%	0%	0%	0%	0%
TO2 Ramp	HR1	HR1	HR1	CO2	OFF	HR1	HR1
TO2 Signal Type	Pulse	On/Off	Pulse	On/Off	On/Off	On/Off	On/Off
TO2 Close Pos.	40%	40%	40%	40%	40%	70%	70%
TO2 Open Pos.	0%	0%	0%	0%	0%	35%	35%
TO3 Ramp	HR2	CR2	HR2	HR1	OFF	Fan ON	Fan Auto
TO3 Signal Type	On/Off	On/Off	On/Off	On/Off	On/Off	On/Off	On/Off
TO3 Close Pos.	40%	40%	40%	40%	40%	40%	40%
TO3 Open Pos.	0%	0%	0%	0%	0%	0%	0%
TO4 Ramp	HR2	HR2	HR2	HR1	OFF	HR1	HR1
TO4 Signal Type	Pulse	On/Off	Pulse	On/Off	On/Off	On/Off	On/Off
TO4 Close Pos.	40%	40%	40%	40%	40%	40%	40%
TO4 Open Pos.	0%	0%	0%	0%	0%	0%	0%
Motor Ramp	CR1	COr	COr	COr	CR1	CR1	COr
AO1 ramp	HR1	CR1	HR1	CR1	HR1	HR1	HR1
AO2 Ramp	HR2	HR1	HR2	HR1	OFF	HR2	Fan Auto
Al1 Input	OFF	SENS	SENS	SENS	OFF	OFF	SENS
Al2 Input	OFF	OFF	OFF	CO2	OFF	OFF	OFF
DI1 Input	nSb.o	nSb.o	nSb.o	Occ.o	Occ.o	nSb.o	nSb.o
Heat Prop Band 2	2°C (4°F)	2°C (4°F)	2°C (4°F)	2°C (4°F)	2°C (4°F)	1°C (2°F)	1°C (2°F)
Heat Deadband 2	1.3°C (2.6°F)	1.3°C (2.6°F)	1.3°C (2.6°F)	1.3°C (2.6°F)	0.3°C (0.6°F)	1.3°C (2.6°F)	1.3°C (2.6°F)
Cool Deadband 2	1.3°C (2.6°F)	1.3°C (2.6°F)	1.3°C (2.6°F)	1.3°C (2.6°F)	0.3°C (0.6°F)	0.3°C (0.6°F)	0.3°C (0.6°F)

## Legend

Grey Text = Standard default value

**Bold Text** = Special default value for selected application

HR = Heating ramp
CR = Cooling ramp
COr = Changeover ramp

SENS = Changeover temperature sensor Fan ON = Fan powered box in continuous mode

Fan Auto = Fan powered box in automatic mode (follows demand)

nSb.o = Night Set Back (normally open) Occ.o = Occupancy mode (normally open)

TO = TRIAC output AO = Analog output AI = Analog input DI = Digital input

Notes	

Notes	



Recycling at end of life: please return this product to your Neptronic local distributor for recycling. If you need to find the nearest Neptronic authorized distributor, please consult **www.neptronic.com**.



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