

EVC Thermostat with BACnet® Communication Port



EVC Series controller with actuator

The TRL2x can only work with the EVC or EVCB. All the inputs/outputs are located on the EVC/EVCB except for the temperature sensor built-in the TRL2x.

TRL24
TRL25

Features:

- Used to program/configure the EVC/EVCB VAV controller
- Attractive modern look with large LCD and backlight
- Icons driven information and 1 line of text information
- 3 wire or RJ45 Ethernet cable between thermostat & EVC/EVCB
- Selectable analog and digital output
- Precise temperature control with programmable PI function
- Selectable Fahrenheit or Celsius scale
- Manual night set back or no occupancy override
- Multi level lockable access menu
- Lockable Setpoint
- Selectable internal or external temperature sensor (10 KΩ)
- Change over by contact or external temperature sensor
- Pressure sensor air flow program available
- Selectable proportional control band and dead band
- Anti-freeze protection
- BACnet® MS/TP @ 9600, 19200, 38400, 76800bps available
- Selectable device instance via technician menu
- Selectable MAC Address by dip switch on the EVCB

Technical Data

	TRL24	TRL25
Electrical Connection	3 wire cable	RJ45 cable
Setpoint Range	10°C to 40°C [50°F to 104°F]	
External Sensor Range	-40°C to 100°C [-40°F to 212°F]	
Control Accuracy	Temperature: ±0.4°C [0.8°F]	
Power Supply	22 to 26 Vac 50/60Hz	
Power Consumption	1 VA	
Rated Impulse	330 V	
Proportional Band	0.5°C to 5°C [1°F to 10°F] adjustable (heat/cool/changeover independent)	
Deadband	0.3°C to 5°C [0.6°F to 10°F] adjustable (heat/cool/changeover independent)	
Operating Temperature	0°C to 50°C [32°F to 122°F]	
Storage & Transport Temperature	-30°C to 50°C [-22°F to 122°F]	
Relative Humidity	5 to 95% non condensing	
Housing Degree of Protection	IP 30 (EN 60529)	
Weight	160 g. [0.36 lb]	

Interface

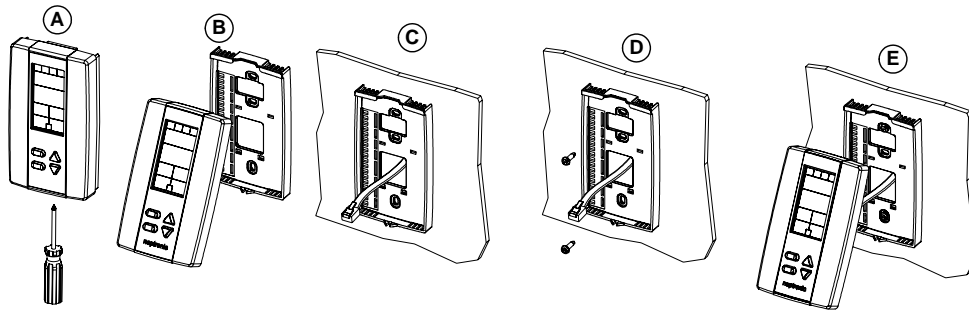
Display Symbols

	Cooling ON A: Automatic		Menu set-up Lock		Energy saving mode
	Heating ON A: Automatic		Programming mode (Technician setting)	°C or °F	°C: Celsius scale °F: Fahrenheit scale
	Communication Status		Alarm status		

Dimensions

Dimension	Imperial (in)	Metric (mm)
A	2.85	73
B	4.85	123
C	1.00	24
D	2.36	60
E	3.27	83

Mounting Instructions



- CAUTION: Risk of malfunction. Disconnect power prior to separating thermostat cover from its base.
- A. Remove the screw (captive) holding the front cover (control module) of the thermostat to the base.
 - B. Lift the front cover off the thermostat to separate it from the base.
 - C. Pull wire through the hole in base.
 - D. Secure the base to the wall using wall anchors and screws (supplied). Make the appropriate connections.
 - E. Mount the control module onto the base and secure using the screw (from Step A).

Settings on PC Board & Connections

Mode Selection (JP1)	
<p>JP1</p> <p><input checked="" type="checkbox"/> RUN <input type="checkbox"/> PGM</p> <p>Jumper (JP1) on RUN: Thermostat is in Operation Mode. Thermostat must be set in this mode to operate properly. If not locked, setpoint and control mode (Heating & Cooling ON, Cooling only ON or Heating only ON) can be modified by end user.</p>	<p>JP1</p> <p><input type="checkbox"/> RUN <input checked="" type="checkbox"/> PGM</p> <p>Jumper (JP1) on PGM: Thermostat is set in Programming Mode. Refer to the following section about all settings description</p>
<p>TRL24 - 3 wire cable (TB1 #1, 2 & 3) Connect TB1 #6 (A+) & #7 (B-) to EVCB for BACnet service port to work</p>	
<p>TRL25 - RJ45 Ethernet cable BACnet service port works only if TRL2x is connected to EVCB</p>	

Recycling at end of life

	<p>At end of life, please return the thermostat to your Nepronic® local distributor for recycling. If you need to find the nearest Nepronic® authorized distributor, please consult www.nepronic.com.</p>
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