



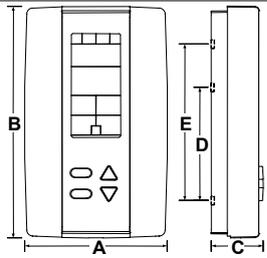
Features:

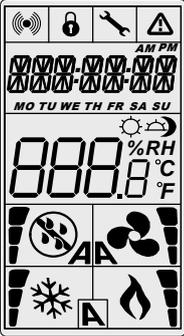
- Used to configure and operate the EVCB VAV controllers
- Selectable internal or external temperature sensor (10 KΩ)
- Humidity sensing (TRLH24 and TRLGH24 only)
- Large LCD with backlight
- Icon-driven information and 1 line of text information
- Three wire connection between thermostat and controller
- Selectable Fahrenheit or Celsius scale
- Network service port via on-board mini USB connector

TRL24
TRLH24
TRLG24
TRLGH24

CO₂ Features (TRLG24 and TRLGH24 only)

- Built-in, self-calibrating, non-dispersive infrared (NDIR) CO₂ sensor
- Adjustable CO₂ setpoint via EVCB controller menu
- CO₂ measurement display (lockable)

| 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] |
| CO ₂ Sensor (TRLG24 and TRLGH24 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 |
| Humidity Sensor (TRLH24 and TRLGH24) | |
| Sensor range | 5 to 95%RH |
| Display resolution | 0.1% |
| Electrical connection | Three wires to EVCB controller and two wires to BACnet/Modbus network 0.8 mm ² [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 |  <p> A = 2.85" 73mm B = 4.85" 123mm C = 1.00" 24mm D = 2.36" 60mm E = 3.27" 83mm </p> |
| Certifications | Conforms to UL STD 873 Certified to CSA STD C22.2 No. 24-93  |
| Note | The thermostat functions only with the EVCB series VAV controller. All the inputs/outputs are located on the controller except for the temperature, humidity, and CO₂ sensor built-in the thermostat. |

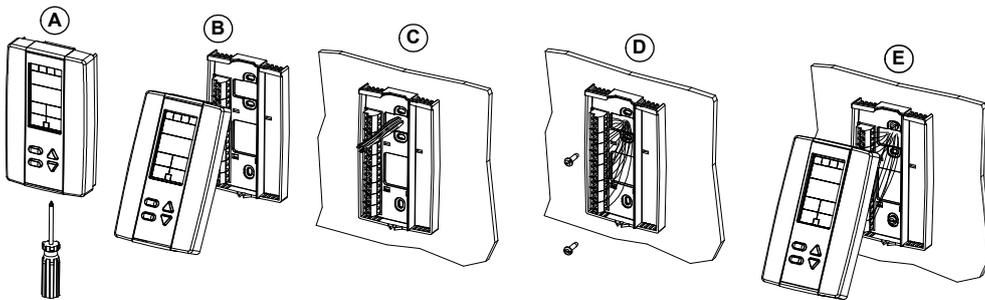
Interface


| | | | | | |
|--|----------------------------|--|--|--|---|
| | Cooling ON A: Automatic | | Communication Status | | Alarm status |
| | Heating ON A: Automatic | | Menu Locked | | Energy saving mode (NSB or Occupancy) |
| | Fan ON A: Automatic | | Programming mode (Technician setting) | | Percentage of humidity |
| | | | | | °C: Celsius scale °F: Fahrenheit scale |

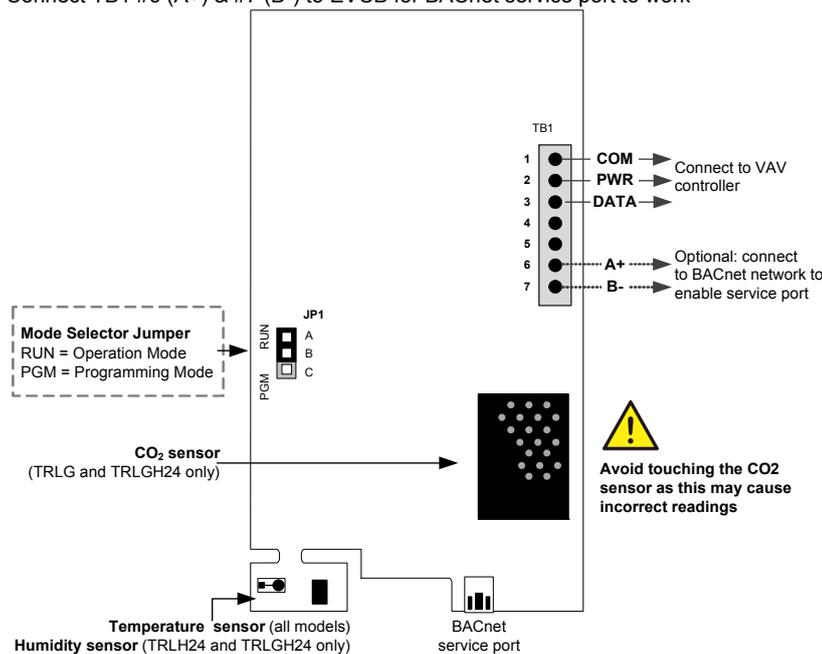
Mounting Instructions

CAUTION: Remove power to avoid a risk of malfunction.

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


Settings on PC Board & Connections
3 wire cable (TB1 #1, 2 & 3)

Connect TB1 #6 (A+) & #7 (B-) to EVCB for BACnet service port to work


Mode Selection (JP1)

| | |
|--|--|
| | 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 the end user. |
| | PGM: Thermostat is set in Programming Mode . Refer to the following section about all settings description |