

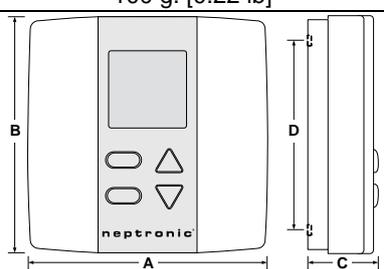


The TRL54 functions only with the EVC controllers. All inputs/outputs are located on the controller except for the temperature sensor built-in the TRL54.

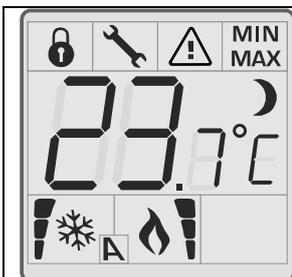
TRL54

Features:

- Used to program/configure the EVC VAV controller
- Attractive modern look with large LCD and backlight
- Icons driven information
- 3 wire cable between thermostat & EVC
- 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
External sensor must be 10KΩ, Type 3
- 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 MAC address by dip switch on the EVCB

| Technical Data | TRL54 |
|---|--|
| Electrical connection | 3 wire 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 |
| Proportional band | 0.5°C to 5°C [1°F to 10°F] adjustable (heat/cool/changeover independent) |
| Dead band | 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 |
| Degree of protection of housing | IP 30 (EN 60529) |
| Weight | 100 g. [0.22 lb] |
| Dimensions A = 3.00 in (78mm) B = 3.00 in (78mm) C = 1.00 in (24mm) D = 2.36 in (60mm) |  |

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 |
|  | Alarm status | MIN MAX | Minimum/Maximum set points | | |



Mounting Instructions

CAUTION: Risk of malfunction. Disconnect power prior to separating thermostat cover from its base.

- Remove the screw (captive) holding the front cover to the base of the thermostat.
- Lift the front cover of the thermostat to separate it from the base.
- Pull wire through the base hole.
- 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 (from step A).

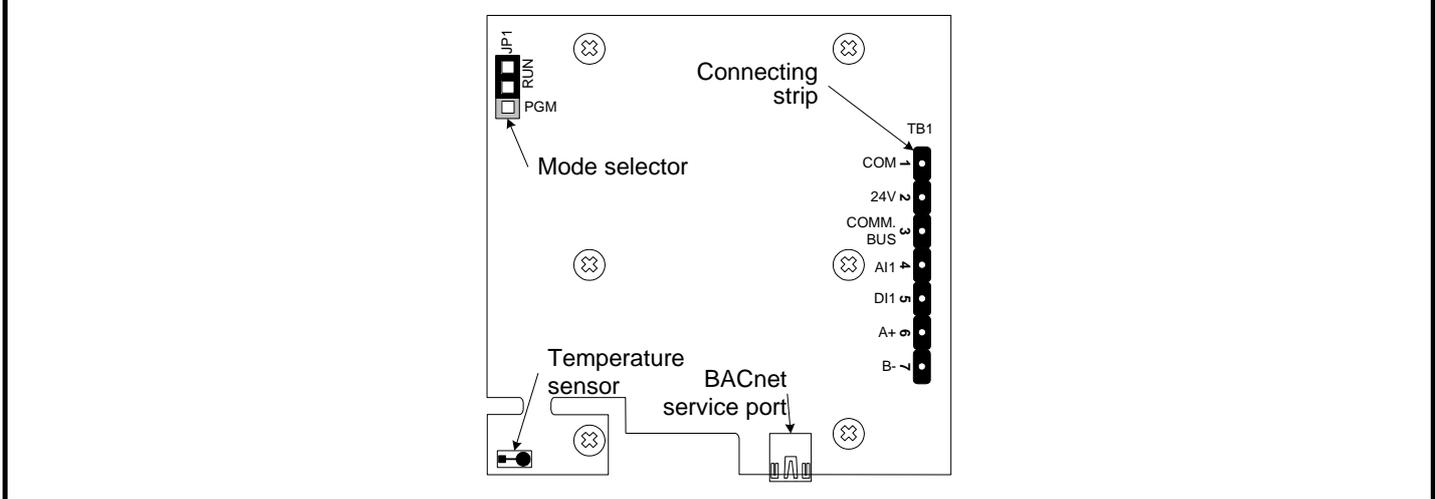
Settings on PC Board & Connections

Mode Selection (JP1)

| | | | |
|---|--|---|--|
| <p>JP1</p> <p><input checked="" type="checkbox"/> RUN</p> <p><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</p> <p><input checked="" type="checkbox"/> PGM</p> | <p>Jumper (JP1) on PGM: Thermostat is set in Programming Mode. Refer to following section about all settings description</p> |
|---|--|---|--|

TRL54 – 3 wire cable (TB1 #1, 2 & 3)

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



Recycling at end of life

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