EFCB Thermostat

Specification & Installation Instructions

TFL54

TFLH54-xxx

Features:

- Used to program/configure the EFCB Fan Coil controller
- Attractive modern look with large LCD and backlight
- Icon-driven information and 1 line of text information
- 3 wire cable between thermostat and EFCB controller
- Selectable Fahrenheit or Celsius scale
- Multi-level lockable access menu
- Selectable internal or external temperature sensor

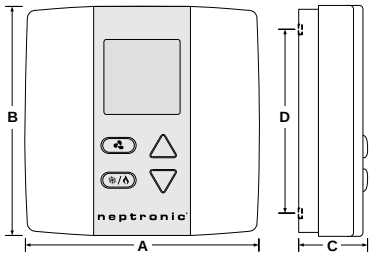
Technical Data	TFL54	TFLH54-xxx
Electrical connection	3 wire cable	3 wire cable
Setpoint range	10ºC to 40ºC [50ºF to 104ºF]	Temperature: 10ºC to 40ºC [50ºF to 104ºF] Humidity: 10 to 65%RH
Control accuracy	Temperature: ±0.5ºC [0.9ºF] @ 22ºC [71.6ºF] typical calibrated	Temperature: ±0.5ºC [0.9ºF] @ 22ºC [71.6ºF] typical calibrated, Humidity ±3.5%
Power supply	From EFCB	
Power consumption	1 VA	
Display resolution	±0.1ºC [0.2ºF]	
Proportional band	0.5ºC to 5ºC [1ºF to 10ºF] adjustable	
Operating temperature	0ºC to 50ºC [32ºF to 122ºF]	
Storage temperature	-30ºC to 50ºC [-22ºF to 122ºF]	
Relative humidity	5 to 95 % non condensing	
Housing degree of protection	IP 30 (EN 60529)	
Weight	80 g. [0.15 lb]	
Note	The TFL(H)5x can only work with the EFC. All the inputs/outputs are located on the EFC except for the temperature sensor built-in the TFL(H)5x.	

Interface

Display Symbols

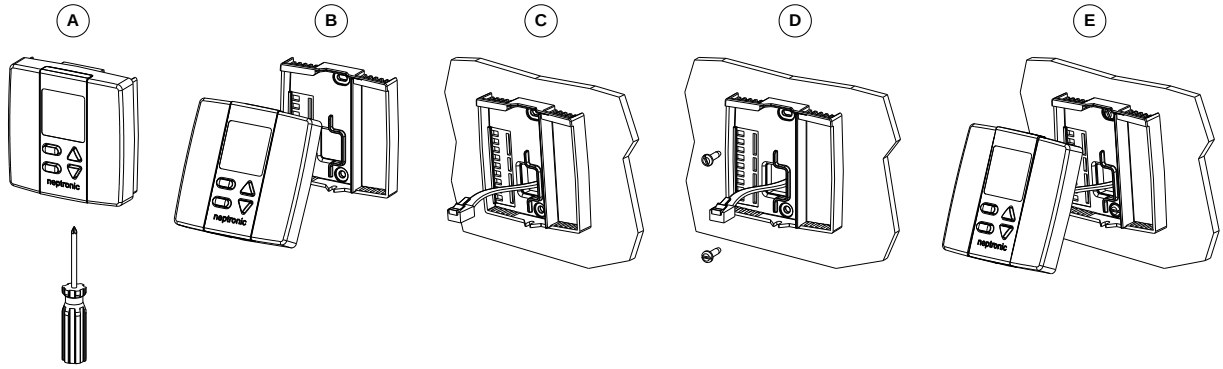
A	*Cooling ON* *100% output* *A: Automatic*		*Menu set-up lock*		*Energy saving mode*
A	*Heating ON* *100% output* *A: Automatic*		*Programming mode (Technician setting)*	°C or °F	*ºC: Celsius scale* *ºF: Fahrenheit scale*
A	*Fan ON* *100% output* *A: Automatic*		*Alarm status*	MIN MAX	*Minimum/Maximum setpoints*

Dimensions



Dimension	Imperial (in)	Metric (mm)
A	3.00	78
B	3.00	78
C	1.00	24
D	2.36	60

Mounting Instructions



CAUTION: Risk of malfunction. Remove power prior to separate thermostat cover (control module) from its base.

A. Remove the screw (captive) holding the base and the front cover of the thermostat.
B. Lift the front cover of the thermostat to separate it from the base.
C. Pull the cable through the base hole.
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 (from step A).

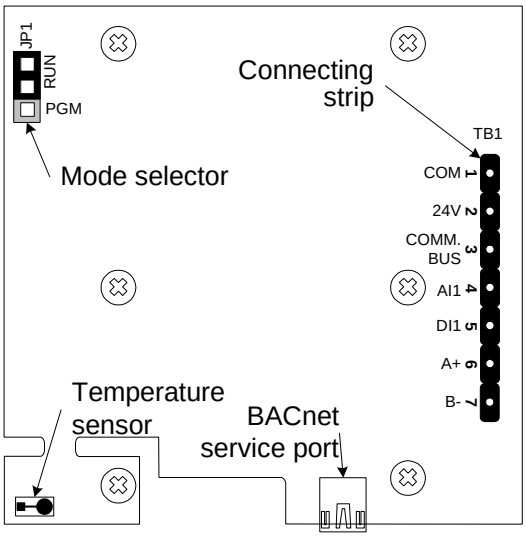
Settings on PC Board & Connections

Mode Selection (JP1)

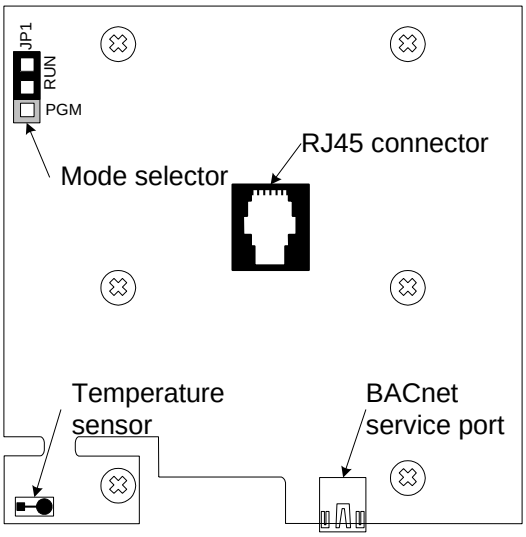
Jumper (JP1) on RUN:
Thermostat is in **Operation Mode**.
Thermostat must be set in this mode to operate properly.
If not locked, setpoint, fan speed and control mode (Heating & Cooling ON, Cooling only ON or Heating only ON) can be modified by end user.

Jumper (JP1) on PGM:
Thermostat is set in **Programming Mode**.
Refer to following section about all settings description

TFL54 – 3 wire cable (TB5 #1, 2 & 3)
Connect TB6 #4 (A+) & #5 (B-) to EFCB for BACnet service port to work



TFL55 – RJ45 Ethernet cable
BACnet service port works only if TFL(H)5x is connected to EVCB



Recycling at end of life

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**.