



TFL Series thermostat
for the EFC fan coil controller

Features:

- Used to program/configure the EFC Fan Coil 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 & EFC
- Programmable analog & digital outputs
- Selectable fan speed contacts
- Selectable Fahrenheit or Celsius scale
- Occupancy sensor (programmable)
- Multi level lockable access menu
- Selectable internal or external temperature sensor
- Programmable proportional control band & dead band
- Change over by contact or external temperature sensor available
- Anti-freeze protection
- BACnet® MS/TP @ 9600, 19200, 38400, 76800bps
- Selectable MAC Address by dip switch on the EFCB
- Selectable device instance via technician menu

TFL24





















TFL25

TFLH24

TFLH25

Technical Data	TFL24	TFL25	TFLH24	TFLH25
Electrical connection	3 wire cable	RJ45 (Ethernet cable)	3 wire cable	RJ45 (Ethernet cable)
Setpoint range	Temperature: 10°C to 40°C [50°F to 104°F]		Temperature: 10°C to 40°C [50°F to 104°F] Humidity: 10 to 65%RH	
Control accuracy	Temperature: ±0.5°C [0.9°F] @ 22°C [71.6°F] typical calibrated		Temperature: ±0.5°C [0.9°F] @ 22°C [71.6°F] typical calibrated, Humidity ±3.5%	
Power supply	24Vac or 24Vdc			
Power consumption	1 VA			
Display resolution	±0.1°C [0.2°F]			
Proportional band	0.5°C to 5°C [1°F to 10°F] adjustable			
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			
Housing degree of protection	IP 30 (EN 60529)			
Weight	120 g. [0.25 lb]			
Note	The TFL can only work with the EFC. All the inputs/outputs are located on the EFC except for the temperature sensor built-in the TFL.			

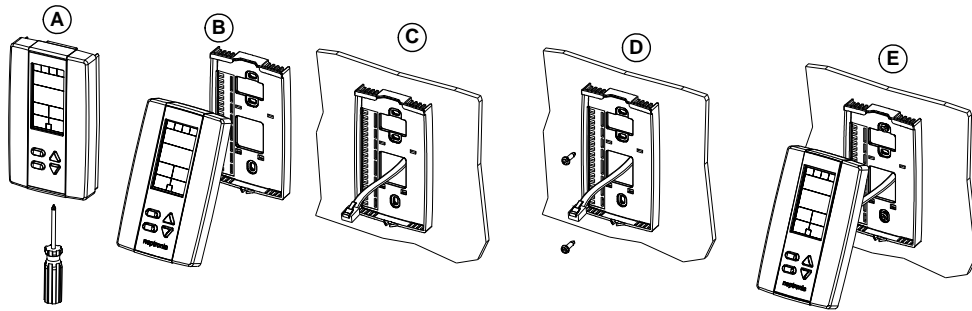
Interface

    AM PM 0000-00-00 MO TU WE TH FR SA SU 000.0 °C 000.0 °F %RH AA AA AA AA	Display Symbols				
 	Cooling ON A: Automatic		Communication Status		Alarm status
 	Heating ON A: Automatic		Menu set-up Lock		Energy saving mode
 	Fan ON A: Automatic		Programming mode (Technician setting)		Percentage of humidity
 	Humidity ON 33, 66 or 100% output		Dehumidification ON 33, 66 or 100% output		°C: Celsius scale °F: Fahrenheit scale

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. Remove power prior to separate thermostat cover (control module) from its base.

- Remove the screw (captive) holding the base and the front cover of the thermostat.
- Lift the front cover of the thermostat to separate it from the base.
- Pull the cable 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 the following section about all settings description</p>
<p>TFLx24 – 3 wire cable (TB1 #1, 2 & 3)</p> <p>Connect TB1 #6 (A+) & #7 (B-) to EFCB for BACnet service port to work</p>	<p>TFLx25 – RJ45 Ethernet cable</p> <p>BACnet service port works only if TFL is connected to EFCB</p>

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.