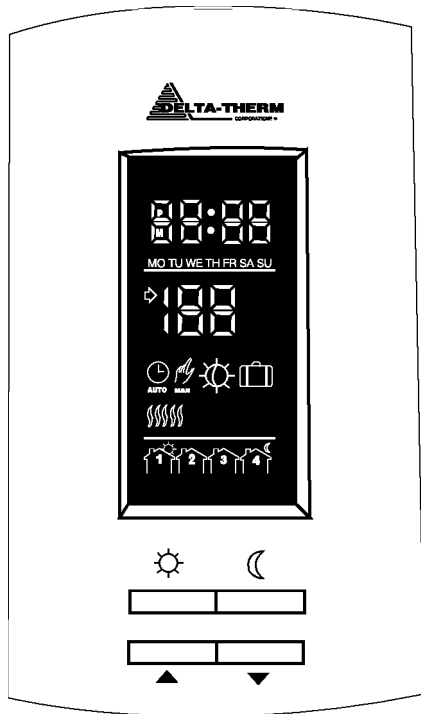


LMI MANUFACTURING GROUP, LLC (P)866-770-9416 (F)877-469-3625
 1802 North Carson Street, Suite 212-2656
 Carson City, NV 89701

FL-12P & FL-24P ELECTRONIC FLOOR WARMING THERMOSTAT

CONTROL



Wall Mount Digital Display
 Set For °F or °C

Easy Installation

Memory Back-Up

Early Start Function

7 Day Programmable

Accuracy: 0.9F (0.5C)

Integral GFCI for Load

FL-12P = 1,920 Watts @ 120V FL-24P = 3,840 Watts @ 240V

Adjustable Length Remote In-Floor Temperature Sensor

CSA Approved/NRTL

DESCRIPTION

The FL-12P (for 120VAC) and FL-24P (for 240 VAC) electronic thermostats provide comfort control for in-floor electric heating systems. The thermostat senses floor temperature from an external thermistor sensor.

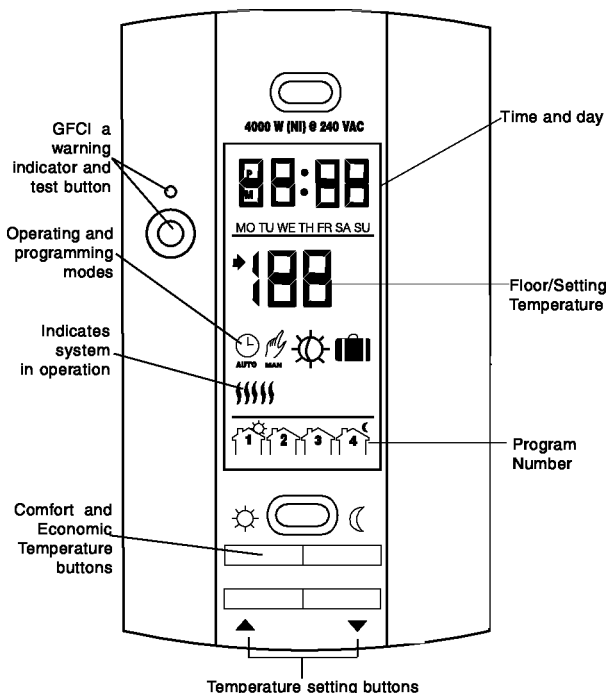
Each thermostat features 7 day programming with up to 4 setting changes per day. The thermostat will store two temperature settings.

Memory Back-Up

In the event of a power failure, an internal circuit will maintain the programming and the time. The time will have to be reset if power failure is more than 2 hours.

Early Start Function

The thermostat has a built-in function enabling it to calculate the optimum time to start the heating system to achieve the desired temperature at the programmed time.



FL-12P Technical Specifications

Supply:	120 Vac 50/60Hz
Load:	16 amps max. (resistive only)
Power:	1920 Watts
GFCI:	Class A (5mA Trip Level)
Approvals:	CSA NRTL/C (UL STD 873)
Display Range:	0 to 60C (32 to 99F)
Setting Range:	10 to 50C (50 to 99F)
!Default:	30C (86F)
!Default:	10C (40F)
Storage:	-20 to 50C (-5 to 120F)
Temp. Regulation:	1C (2F)
Precision:	+/- 0.5C (1F)
Switchable:	Single Pole Relay

POWER UP

When power is applied for the first time the display must show the floor temperature. Other information may appear on the display if the installation is defective or does not comply with the instruction. The warning light (GFCI) must be off.

When the system calls for heat, the heating indicator (radiant icon) will be present on display and the relay will be closed.

The message LO will appear on the display if the temperature sensor is not connected per instructions, or the temperature is below 0C (32F).

The message E1 will appear on the display if the temperature sensor is short-circuited.

The message HI will appear on the display if the temperature is higher than 99F.

If anything else appears on the display, press the ~ button as you press and release the RESET button.

For loads greater than 16A the device can control relays or other switching devices. The thermostat will not be providing ground fault protection when used in this manner.

FL-24P Technical Specifications

Supply:	240 Vac 50/60Hz
Load:	16 amps max. (resistive only)
Power:	3840 Watts
GFCI:	Class A (5mA Trip Level)
Approvals:	CSA NRTL/C (UL STD 873)
Display Range:	0 to 60C (32 to 99F)
Setting Range:	10 to 50C (50 to 99F)
!Default:	30C (86F)
!Default:	10C (50F)
Storage:	-20 to 50C (-4 to 120F)
Temp. Regulation:	1C (2F)
Precision:	+/- 0.5C (1F)
Switchable:	Double Pole Relay

CHECKING GFCI

Adjust the setpoint temperature until the heating indicator (radiant icon) appears on display. Press the TEST button with a paper clip. The test is conclusive if the warning light (GFCI) on the thermostat is ON and power to the load is cut-off. If these events do not occur, check the installation. Press the RESET button to reset the GFCI.

If the GFCI test fails:

Check the wires connected to the thermostat. Make sure the line and load wires are connected as shown. The thermostat must be in heating mode to carry out the test (heating indicator ON).

The GFCI test should be carried out monthly. If the test fails or if the warning light comes on during normal operation, turn off power to the heating system and contact a qualified electrician.

REMOTE SENSING

The FL-12P and FL- 24P have a remote 15' (standard length) external thermistor sensor to be placed within the heated floor area. This sensor ensures that the thermostat is accurately reading and controlling the temperature of the floor and not the room temperature.

