

F2000LB-Ea DATASHEET

Digital Room Thermostat for Floor Heating Systems

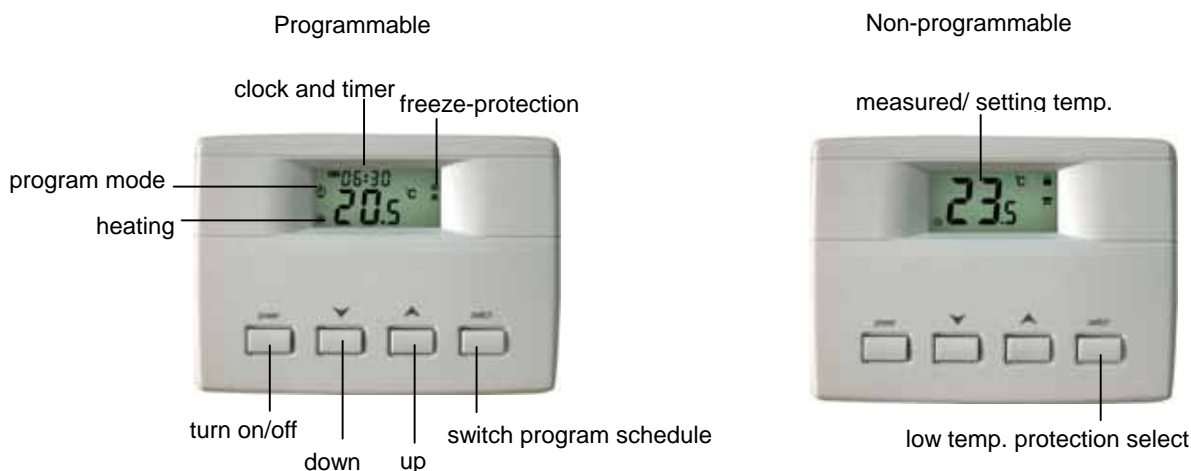
SPST and DPDT Selectable

Programmable or Non-Programmable CE Approval

□ Features

- ◆ Digital room thermostat for control floor heating systems which makes room ambience comfortable and saving energy.
- ◆ Particular design of double temperature modification which eliminates the influence from heating from inside, and makes temperature measurement and control more accurate.
- ◆ LCD can display working status such as room temperature, set point, fan speed, etc. Makes reading and operating easy and accurate.
- ◆ All models feature user-friendly setting buttons
- ◆ Safety two parts structure design makes electric load to separate from the thermostat. Individual output and input terminals with rated 20amp make electric connecting more safe and reliably.
- ◆ SPST or DPDT switch selectable
- ◆ Internal or external temperature sensor selectable to control room or floor temperature. Also two sensors for room temp. control and floor heating temp. limit control
- ◆ 5/2 days weekly programmable optional with four times periods and four temperatures
- ◆ Holiday mode makes users preset the holiday days And the saving energy temperature
- ◆ Celsius or Fahrenheit degree selectable
- ◆ Low temperature protection
- ◆ Infrared Remote Control (optional)
- ◆ Blue backlight (optional)
- ◆ Power supply selectable: 110VAC/230VAC or DC3V battery power

□ Buttons and LCD



□ Specifications

Power supply	220VAC \pm 10% ; 110VAC \pm 10% Battery power supply: DC3V, two alkaline batteries 1.5 V each type AAA
Switching Current	SPST Rating resistance load: 16A 230VAC/110VAC DPDT Rating resistance load: 8A 230VAC/110VAC

Sensor	NTC temperature sensor
Temperature Control Range	5~35 (41~95) or 5~90
Accuracy	± 0.5 (± 1) @25
Display	LCD
Net Weight	280g
Dimensions	120mm(L) × 90mm(W) × 22mm(H)+28.5mm(bulge)
Mounting Standard	Mounting on the wall, or 2" × 4" 65mm × 65mm box
Housing	PC/ABS plastic material

□ Models

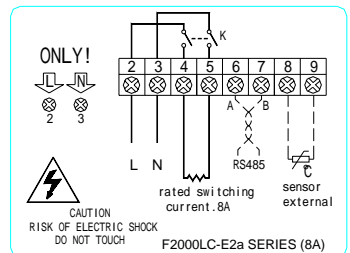
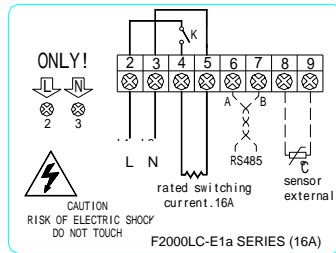
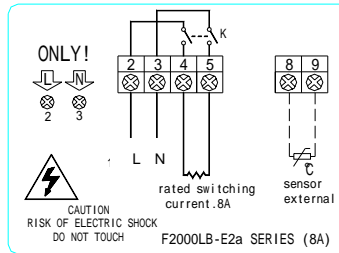
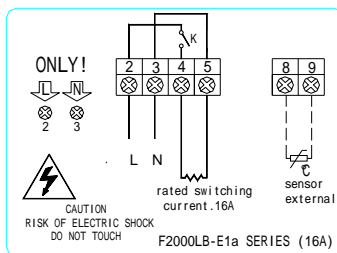
Type	Model	Characteristic
Digital thermostat for floor heating systems with SPST	F2000LB-E1a -(A)/(B)	One on/off switch contact, rating resistance load: 16amp. It controls the live wire of load directly Power supply: (A)- 220VAC~240 VAC (B)- 100VAC~120VAC
Digital thermostat for floor heating systems with DPDT	F2000LB-E2a	Two on/off switch contacts, rating resistance load: 8amp. It can cut off the two wires (L,N) of load.
OPTIONS		
Options for above items	Programmable -CK4	Can be set weekly 5 day/2 day with four times of four temperatures. Also can be set the holiday mode with a special temperature and holiday days.
	Blue Backlight -EL	Blue backlight of LCD.
	Remote Control -R	Infrared remote control
	Sensor External -W	Temperature sensor is external, its length is from 2.5 meters to 4 meters.
Type	Model	Characteristic
Programmable thermostat for floor heating systems with SPST, RS485 communication interface	F2000LC-E1a-CK4	One on/off switch contact, rating resistance load: 16amp. It controls the live wire of load directly. 5/2 days programmable RS485 communication.
Programmable thermostat for floor heating systems with DPDT, RS485 communication interface	F2000LC-E2a-CK4	Two on/off switch contacts, rating resistance load: 8amp. It can cut off the two wires (L,N) of load. 5/2 days programmable RS485 communication interface
Battery Power Supply		
Programmable thermostat for floor heating	F2000LB-E1a-CK4- DC3V-16A	One on/off switch contact, rating resistance load is 16amp. 5 days/2 days programmable. 2x1.5VDC batteries power supply

Shipping Information

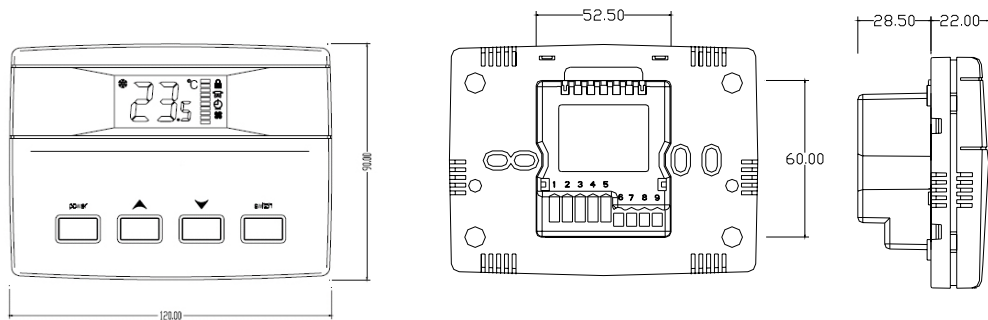
F2000LB-Ea with 220VAC/110VAC power supply	
Indiv. Ctn. Dim	135mm x 95mm x 55mm
Master Ctn. Qty	40
Master Ctn. Dim	44cm(L)X32cm(W)X32cm(H)
Master Ctn. Wt.	14KG

F2000LB-Ea-DC3V without batteries	
Indiv. Ctn. Dim	135mm x 95mm x 32mm
Master Ctn. Qty	80
Master Ctn. Dim	44cm(L)X32cm(W)X32cm(H)
Master Ctn. Wt.	20Kg

Wiring Diagrams



Mounting



The hand held remote controller
120mm(L)X45mm(W)X 23mm(H)



External sensor with plastic jacket (standard 6 meters)

