

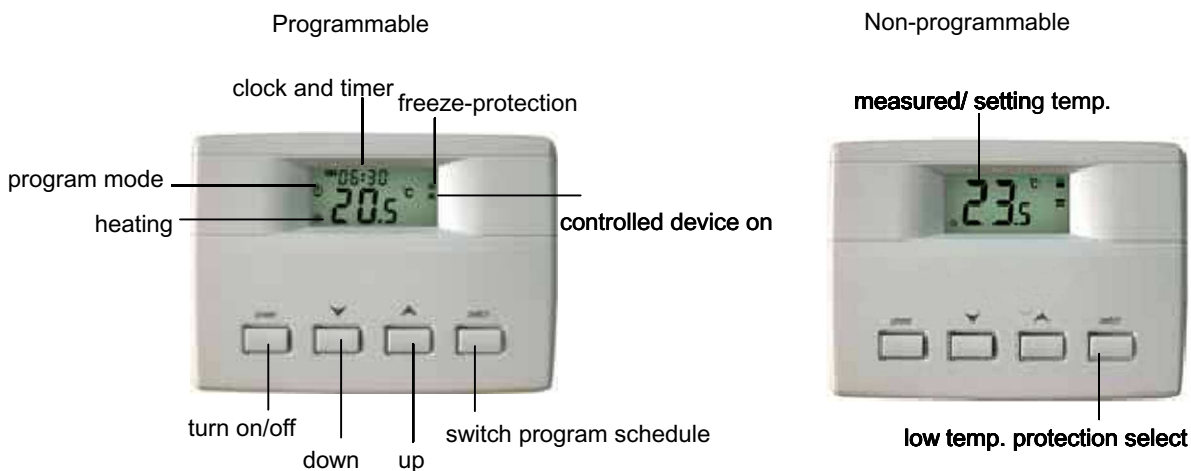
# F2000LB-G SERIES DATASHEET

Digital Thermostats for Heating Boilers  
 Programmable or Non-Programmable  
 CE-Approval

## □ Features

- ◆ Digital room thermostat for control gas boilers which makes room ambiance comfortable and saving energy
- ◆ LCD can display working status such as room Temperature, set point, timer, boiler work on/off, etc. which makes reading and operating easy and accurate.
- ◆ Low temperature protection
- ◆ Celsius or Fahrenheit degree selectable
- ◆ Two parts structure and quick wire terminal block makes installing easily.
- ◆ Two programmable mode selectable to complement your lifestyle (optional)
  - 5/2 days weekly program with four time periods and four temperatures.
- ◆ 5/2 days weekly program with four time periods and turning off/turning on.
- ◆ Timer of auto turning-off after working a couple of hours with 0.5~12 hours preset (optional)
- ◆ All setup is permanently held in nonvolatile memory in event even power failure.
- ◆ Infrared Remote Control (optional)
- ◆ Blue backlight display (optional)
- ◆ External or internal temperature sensor selectable
- ◆ RS485 communication interface(optional)
- ◆ Power supply: 230VAC or 110VAC
- ◆ The programmable thermostat with battery power supply: Two alkaline batteries 1.5 V each type AAA. Low batteries indication.

## □ Buttons and LCD



## □ Specifications

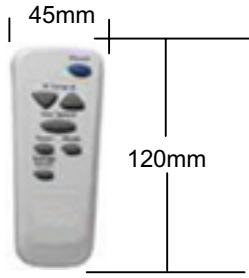
Power supply	230VAC±10% or 110VAC±10% DC3V, two alkaline batteries 1.5 V each type AAA.
Switching Current	Rated load: 1A for models with 230VAC/110VAC power supply Magnetic latching relay, rated 2A/250VAC or rated 5A/250VAC

	for models with battery power supply
Temperature Sensor	NTC
Temperature Control Range	5~35°C for internal sensor 5~90°C programmable setting for external sensor
Accuracy	±0.5 °C (±1°F)
Differential operation:	can be set from 0.5°C to 5°C
Display	LCD
Net Weight	240g for 230VAC/110VAC power supply 220g for battery supply
Dimension	120mm(L)×90mm(W)×24mm(H)
Mounting Standard	Mounting on the wall, 2"×4"/ 65mm×65mm box
Housing	PC/ABS plastic fireproof material
Standard	CE-Approval

#### □ Models

Type	Model	Characteristic
Digital Room Thermostat For Heating Boilers  (A): 220VAC (B): 110VAC	F2000LB-GS-01(A)(B)	For controlling a water valve of heating boiler with 1x Triac active output. The rated load is 1A/220VAC
	F2000LB-GS-02(A)(B)	For controlling a water valve of heating boiler and a single-speed fan with 2x Triac active outputs. The rated loads are all 1A/220VAC
	F2000LB-G-01(A)(B)	1 on/off relay (dry contact) to gas boiler, switch current rating < 2A (resistive load)
	F2000LC-G(A)(B)	1X on/off output (dry contact), switch current rating < 2A (resistive load) RS485 communication interface
<b>OPTIONS</b>		
Accessional options for above models	Programmable- <b>CK4</b>	weekly 5 / 2 days program with four time periods of four temperatures.
	Programmable- <b>CK</b>	weekly 5 / 2 days program with four time periods of turning-on/ turning-off.
	Timer - <b>TM</b>	Can be set the auto turning-off time after a working hours with 0.5h-12h preset
	Blue Backlight- <b>EL</b>	Blue backlight of LCD.
	Remote Control- <b>R</b>	Infrared receiver (works with remote controller)
	Sensor External- <b>W</b>	Temperature sensor is external, its length is from 2.5 meters to 4 meters.
Type	Model	Characteristic
Programmable Thermostat for Gas Boilers with Battery Supply	F2000LB-G-CK4-DC3V-2A	1 on/off switch contact to gas boiler, rating load is 2 amp. Programmable with <b>CK4</b> option
	F2000LB-G-CK4-DC3V-5A	1 on/off switch contact to gas boiler, rating load is 5 amp. Programmable with <b>CK4</b> option
	F2000LB-G-CK4-W-DC3V-2A	1 on/off switch contact to gas boiler, rating load is 2 amp. Programmable with <b>CK4</b> option and an external sensor
	F2000LB-G-CK4-W-DC3V-5A	1 on/off switch contact to gas boiler, rating load is 5 amp. Programmable with <b>CK4</b> option and an external sensor

The handhold remote controller:  
120mm(L)X45mm(W)X 23mm(H)



External sensor

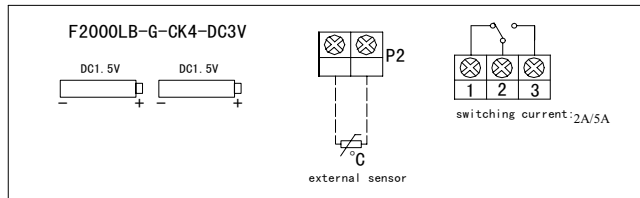
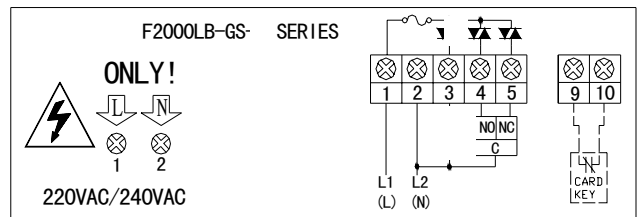
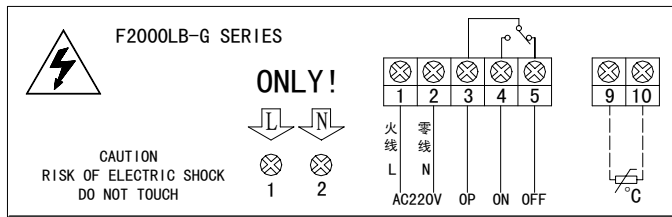


Shipping Information

F2000LB-G/F2000LB-GS Series	
Indiv. Ctn. Dim	135mm×95mm×32mm
Master Ctn. Qty	80
Master Ctn. Dim	44cm(L)X32cm(W)X32cm(H)
Master Ctn. Wt.	20Kg

F2000LB-G-DC3V Series	
Indiv. Ctn. Dim	135mm×95mm×32mm
Master Ctn. Qty	80
Master Ctn. Dim	44cm(L)X32cm(W)X32cm(H)
Master Ctn. Wt.	18Kg

Wiring Diagrams



Mounting

