

Lewson

Electric Underfloor Heating System
MANUAL

This leaflet contains important.
Please keep it for future reference.



IMPORTANT! Read the following instructions carefully before use.

Dear User:

Thank you for choosing Liwusheng Graphene Heating System products. To ensure proper use of the product, please read this instruction manual carefully before use.

Check that all parts and accessories are complete according to the requirements of the instruction manual. Install the system according to the installation steps in the instruction manual and perform correct testing.

Model	Power (W) $\pm 10\%$	Voltage (V/AC)	Heating Material	Material	Heating Method	Thickness (mm)	Service Life (h)	Breakdown Voltage (V)	Insulation Resistance (Ω)
LS300	90/PC	230 (50Hz)	Graphene-based heating layer	EPP AL	Far-infrared radiant heating	21.5	≥ 30000	≥ 1000	$\geq 50\text{ M}$



Warning

 No Piercing or Nailing	Do not drill holes, drive nails, or insert any sharp objects within the floor heating installation area. This is critical to prevent any physical damage to the heating system.
 No Metallic Auxiliary Materials	The use of insulation materials containing metal or metallic moisture barriers is strictly prohibited during installation. Additionally, do not use any flammable, explosive, or toxic insulation materials.
 No Rough Handling	The current-carrying electrodes of LEVSON heating products are sensitive. Any damage (such as bending or breaking) may lead to sparking or circuit tripping during system commissioning. Please handle with extreme care during transport and installation to avoid safety hazards.
 No Overlapping	Overlapping of individual heating units or components is strictly prohibited during the installation of the floor heating system.
 Professional Installation Only	The floor heating system must be professionally designed, installed, and serviced. Unauthorized installation or maintenance is strictly prohibited to ensure system safety and performance.

Product Usage Instructions

1. Ensure Unobstructed Heat Dissipation

Do not cover the heated floor area with carpets, thick mats, or similar items. Obstructions may hinder heat dissipation and pose a potential fire hazard.

2. Proper Use of Thermostats

Do not block, disassemble, or move the thermostat. Ensure it is kept away from heat sources, dry, and clean to maintain accurate temperature control.

3. Avoid Excessive Temperature Settings

Setting a higher temperature will not speed up the heating process; it will only increase energy consumption. The recommended setting for winter is 18°C–22°C.

4. Avoid Frequent Switching

The system operates at full load during the initial heating phase. Frequently turning the system on and off reduces efficiency and increases energy costs.

5. Lower the Temperature When Away

When the space is unoccupied, set the temperature to 10°C–12°C. This is more energy-efficient than turning the system off completely.

6. Minimize Opening Doors and Windows

Keep doors and windows closed as much as possible during the heating process to prevent heat loss.

7. Inform Contractors Before Renovation

If you plan to modify walls, doors, windows, or floor structures, please consult the service provider in advance to avoid affecting the LEVSON system's performance.

8. Prevent Damage to the System

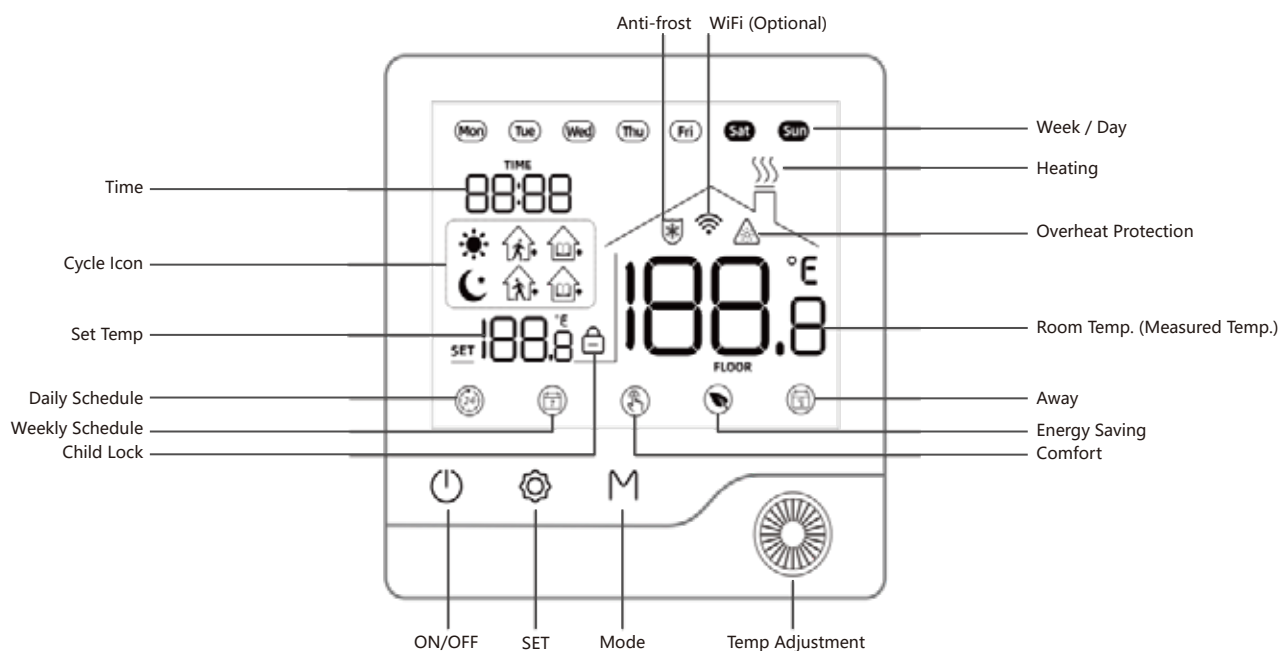
Drilling holes, driving nails, or inserting sharp objects into the installation area is strictly prohibited to avoid damaging the heating system.

Thermostat Instructions:

1. Technical Specifications

Rated Voltage (V/AC)	Rated Current (A)	Rated Power (W)	Standby Power Consumption (W)	Temperature Setting Range (°C)	Temperature Measurement Range (°C)	Temperature Measurement Accuracy (°C/°F)	Temperature Control Tolerance (°C)	Set temperature upper limit	Anti-freeze Temperature	Temperature Calibration
95–240 (50–60 Hz)	16 (Resistive Load)	3000	≤1.5	5–85	0–90	±0.5 / ±1	2	50°C (default value adjustable in system settings)	OFF (adjustable 5–15°C)	–9 to +9°C (default –3°C)

1. Screen Display



a. Power On/Off

Press [Power] to turn the device on or off.

b. Time Setting

While on, hold [Set] for 3s to enter settings:

Week: When the icon flashes, turn the Knob to select, then press [Set] to save.

Hour: When the digits flash, turn the Knob to select, then press [Set] to save.

Minute: When the digits flash, turn the Knob to select.

Save: Press [Power] to save, or wait 20s for auto-save. (Pressing [Set] cycles back to Week).

c.Mode Selection

While on, short press [Mode] to cycle through: Comfort, Daily, Weekly, Energy Saving, and Away.
Saves automatically.
Default: Energy Saving (16°C, adjustable), Comfort (20°C).

d."Comfort" Mode Temperature

In Comfort mode, turn the Knob to adjust (0.5°C steps). Saves automatically.

e."Daily Schedule" Temperature

In Daily mode, short press [Set]:
Turn the Knob to set the target temperature for the 1st period.
Short press [Set], then turn the Knob to set the start time.
Press [Set] to repeat for subsequent periods (up to 12 periods/24 hours).Press the [Power] key to save the settings.

Daily Plan Mode Default Temperature:

Icon	Daily Schedule Time Period		Temperature
	22:00	06:00	16°C
	06:00	08:00	20°C
	08:00	11:30	16°C
	11:30	13:30	18°C
	13:30	17:00	16°C
	17:00	22:00	22°C

"Weekly Schedule" Mode Temperature Setting

In "Weekly Schedule" mode, short press [Set] to start:

Select Day: When the icon flashes (Default: MON), turn the Knob to select, then press [Set].

Set Hour: When the digits flash, turn the Knob to adjust, then press [Set].

Set Periods & Temp: Turn the Knob to set the target temperature for the 1st period. Press [Set] to move to the next time and temperature settings. Repeat for up to 12 periods or 24 hours.

Repeat for Week: Continue pressing [Set] to set schedules for Tuesday through Sunday in the same way.

Save: Press [Power] to save.

"Weekly Schedule" Default Temperatures

Icon	Monday to Friday		Temperature	Saturday		Temperature
	22:00	06:00	16°C	22:00	06:00	16°C
	06:00	08:00	20°C	06:00	08:00	22°C
	08:00	11:30	16°C	08:00	11:30	20°C
	11:30	13:30	18°C	11:30	13:30	22°C
	13:30	17:00	16°C	13:30	17:00	20°C
	17:00	22:00	22°C	17:00	22:00	22°C

a. "Energy Saving" Mode

The device operates based on background settings (Default: 16°C).

b. Screen Lock

Lock: While on, hold [Power] for 5s until the icon lights up. Only Power On/Off will function.

Unlock: While on, hold [Power] for 5s until the icon turns off.

c. View External Sensor Temperature

While on, hold [Set] and [Mode] simultaneously. The screen will display the floor temperature ("Floor"). Release to return.

d.Sensor Switching

While off, press [Power] and [Set] to enter settings (displays 01). Turn the Knob to adjust (01-03):

01 (External Sensor): Operates and displays floor temperature. Hold [Power] and [Set] to view room temperature.

02 (Dual Control): Operates based on room temperature with floor overheat protection. Hold [Power] and [Set] to view floor temperature.

03 (Dual Control - No Protection): Operates based on room temperature and monitors floor temperature without protection. Hold [Power] and [Set] to view floor temperature.

e.Temperature Unit Switching

While off, press [Power] and [Set] to enter sensor settings (01). Press [Mode] twice:

00: °C

01: °F Turn the Knob to select, then press [Power] to save and exit.

f.Background Management

While off, hold [Power] and [Mode] for 3s for full screen display:

Screen Test: Turn the Knob to toggle full screen on/off.

Settings: Press [Mode] to switch items; turn the Knob to adjust values.

Save: Press [Power] to save and exit.

Background Parameters

No.	Item	Range	Default
01	Temp. Calibration	-9~9°C	-3°C
02	Max Set Temp.	5~85°C	85°C
03	Hysteresis (Tolerance)	1~15°C	2°C
04	Overheat Protection	15~85°C	50°C
05	Anti-frost Temp.	2~15°C	OF
06	Continuous Heating Protection Delay	0~99h (0 = Off)	00
07	Continuous Heating Protection Duration	10~90min	20 min ("-" if Item 06 is 00)
08	Energy Saving Temp.	10-25°C	16°C
09	Away Temp.	5~15°C	5°C
10	Relay Test	ON/OFF	ON
11	Factory Reset	E0/E1	Press [Power] at E1 to reset

g.Troubleshooting & Diagnosis

Error Type	Diagnosis
Temp. display 2N	External sensor short circuit
Temp. display 2F	External sensor open circuit
Temp. display 1N	Internal sensor short circuit
Temp. display 1F	Internal sensor open circuit
Load Protection	 " " flashing on screen

Warranty & Customer Service

- 1.Quality Inspection All product performance has undergone comprehensive testing before leaving the factory.
- 2.Warranty Period Starting from the date of successful installation and inspection, we provide a 10-year warranty for the floor heating products and a 1-year warranty for the thermostat.
- 3.Warranty Exclusions The following situations are not covered under the free warranty. In these cases, our company (Party B) will provide paid maintenance services, charging only for component costs and labor:
- a. The warranty period has expired.
 - b. Damage caused by installation or maintenance performed by unauthorized personnel.
 - c. Failure to provide a valid proof of purchase.
 - d. Product models, serial numbers, or related information do not match the actual items.
 - e. Damage caused by force majeure or other external factors.

For questions or support, please contact our customer service:

Lian J Group Pty Ltd
info@Lianjgroup.com

Importer:

Lian J Group Pty Ltd
ABN : 67 601 531 533

Manufacture:

Jiangsu LEVSON Electronic Technology Co., Ltd.



IPX6