

# PREMIUM • PROGRAMMABLE



## ESP120 & ESP230 ELECTRONIC PROGRAMMABLE LINE VOLTAGE

Star Performer



Backlight Display  
ON/OFF illumination switch  
System OFF switch

MODEL	UPC #093319 PART #	TYPE	PACK-AGING	WIRE LEADS	VOLTS	AMPS	TEMP. RANGE
ESP230	10376	7 Day Independent Electronic Programmable	Box (50 pieces)	3 Wire	208/240	22	44°F - 95°F
ESP230-R	10380	7 Day Independent Electronic Programmable	Clamshell* (10 pieces)	3 Wire	208/240	22	44°F - 95°F
ESP120	10377	7 Day Independent Electronic Programmable	Box (50 pieces)	3 Wire	120	22	44°F - 95°F
ESP120-R	10378	7 Day Independent Electronic Programmable	Clamshell* (10 pieces)	3 Wire	120	22	44°F - 95°F

\* a master pack of 4 - 10 packs is available (40 units total)

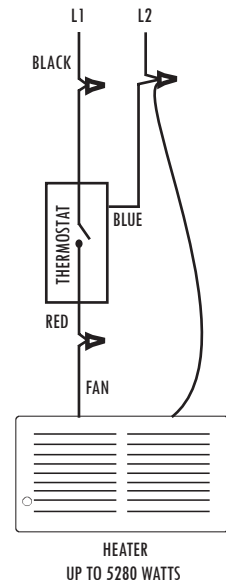
This thermostat took years to develop and has become a popular model. All the features you want without too many buttons. Simple is always better.

We have added backlighting to the full-size display and an on/off switch to control the illumination. On the front two

simple buttons control the temperature up and down, while all the programming keys are hidden under the front cover, protected from wandering, unauthorized fingers.

Comfort and convenience is always our primary goal at King.

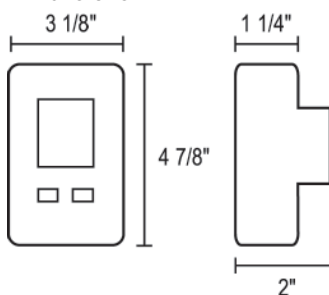
### WIRING DIAGRAM



### SPECIFICATIONS

Temperature Range:  
44°F to 95°F (7°C to 35°C)  
Temperature Default: Your saved setting  
Display Format: LCD  
Illumination: Green LED  
Sample Rate: Every 60 seconds  
Room Temp. Display:  
Large LCD  
Delay: 3 minutes on or off  
Accuracy: NEMA TEST  
1.5°F @ 22 Amps,  
1.4°F @ 16 Amps,  
1.2°F @ 10 Amps,  
.9°F @ 4.2 Amps  
Power Source:  
120 VAC (ESP120),  
208/240 VAC (ESP230),  
50 - 60Hz

Dimensions:



### FEATURES

- Save up to 15% on your heating costs.
- Even temperature control.
- Electronic temperature sensing is the most accurate technology.
- 3 minute cycle rate reduces temperature swings and increases comfort at all control settings.
- Contemporary design.
- Complies with all codes requiring anticipated or electronic thermostats.
- Single pole design with third wire to power display.
- LCD display with temperature.
- White color with gray print.
- Shallow design allows more wiring room inside full electrical boxes.
- Tap key temperature settings.
- Red LED Heater ON Indicator.
- Backlight Display.
- System On/Off Switch.

### TECHNICAL

- 22 Amps at 240V, 5280 Watts.
- 22 Amps at 208V, 4576 Watts.
- 22 Amps at 120V, 2640 Watts.
- Three wire installation.
- Snap action relay built-in.
- 30 Amp relay (before derating).
- Wire leads #12 AWG.
- 3/4" depth into wire box.
- 44°F to 95°F (7°C to 35°C) set point range.
- Single button operation.
- Electronically anticipated.
- Thermistor sensor.
- 120V or 208/240V models only.
- Contemporary styling.
- Digital thermometer/set point.
- Large LCD display.
- Meets energy requirements.
- 1.5 degrees maximum.
- 3 min. delay between cycles.
- For use on all types of electric heaters, fan-forced, baseboard, radiant, etc.
- On/Off switch for backlight.
- On/Off switch for system.
- Battery backup.

### INSTALLATION

This line voltage device should be installed and serviced by a qualified electrician. The thermostat has been designed to mount to a standard 2" X 4" electrical outlet box. Leveling of the thermostat is not required. Mounting screws are provided. Mount the thermostat about five feet above the floor in an area with good air circulation. Avoid mounting the thermostat where it will be affected by drafts, air from ducts, and radiant heat sources such as appliances, the sun or plumbing pipes.



bottom view of switches



cover removed for programming