

# Wireless 24V RF Thermostat Kit KRF-HEAT-KIT

For Line Voltage Electric Heat Control



## ThermaLink



KRFTP-B



KRFLR-120/240V



- Kit includes KRFTP-B RF 24V RF Thermostat & KRFLR-120/240V 20A RF heating relay.
- Wireless Two-way RF communication - 915 MHz
- 120/240V 20A Electric Heat control
- 7-day programmable schedule
- Range: 44°F to 90°F (7°C to 32°C) Accuracy:  $\pm 1^\circ\text{F}$
- Optimal start/stop
- Keypad lockout
- Maximum heat temperature limits 44°F to 90°F
- Optional RF sensors to limit operation based on room activity or open windows/doors
- 2 Year Limited Warranty

### **KRF-HEAT-KIT: A 24V RF Wireless Thermostat Platform To Control Electric Resistance Heaters.**

KRF-HEAT-KIT is a 24-volt RF wireless thermostat platform designed to control electric resistance heaters, including both fan-driven and baseboard models without running new wires through walls, simplifying installation. The kit includes a 7-day programmable thermostat that communicates wirelessly to a 20A 120/240V relay that is wired to the heating unit. For added flexibility, the system supports optional RF sensors to limit operation based on room occupancy, a window left open or setback all units in the building with a master switch.

### Ordering Information - Complete Kit

MODEL	UPC	DESCRIPTION
KRF-HEAT-KIT	70425	RF Thermostat Kit, w/ 1 x KRFTP-B Programmable BP Thermostat & 1 x KRFLR-120/240V Heat Relay

### Order A'la Carte

MODEL	UPC	DESCRIPTION
KRFTP-B	70134	Programmable Battery Powered Multi-System RF Thermostat
KRFLR-120/240V	70135	20A Heat Relay, 120V or 240V

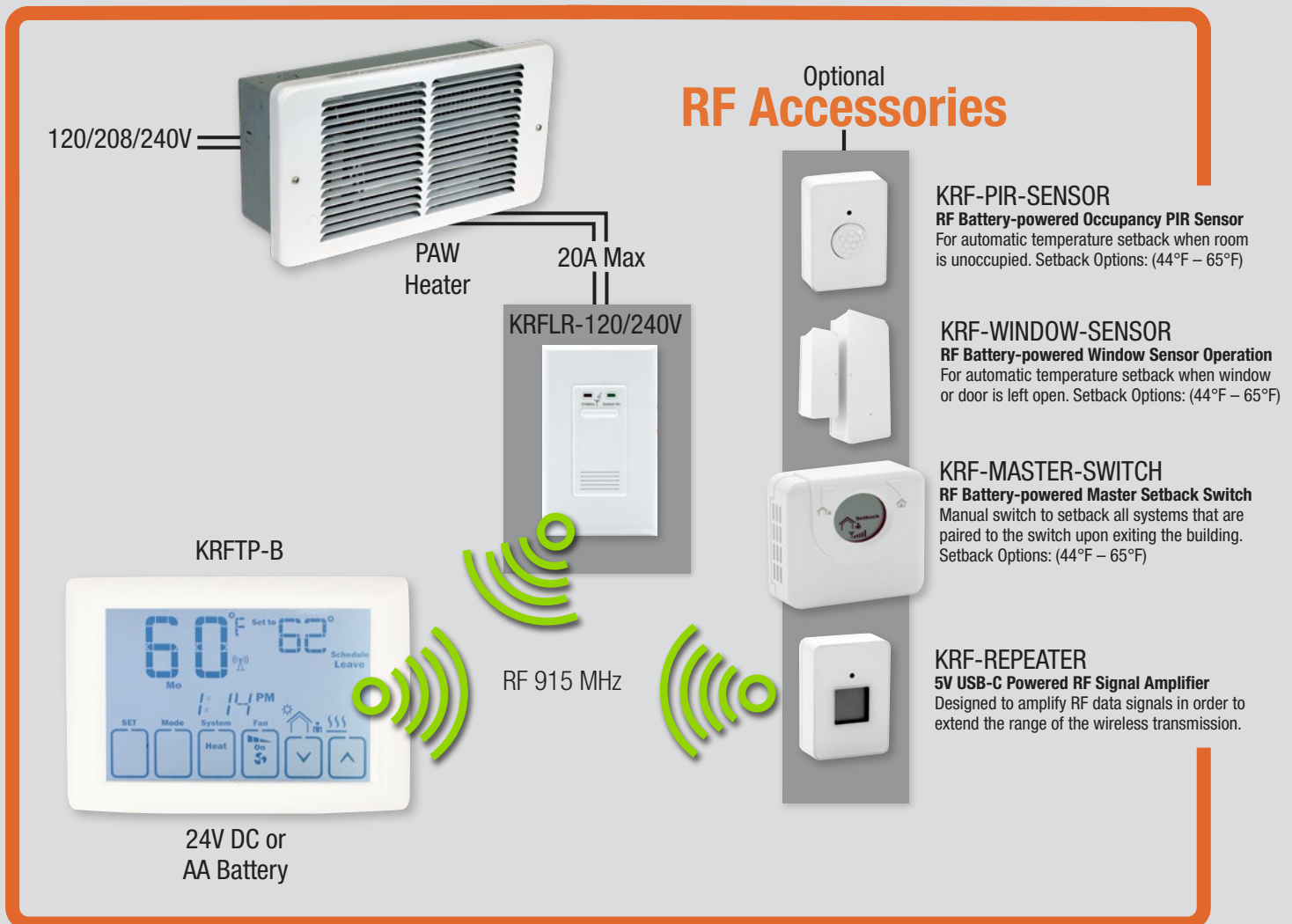
### Optional Accessories

MODEL	UPC	DESCRIPTION
KRF-PIR-SENSOR	70152	PIR Sensor, Battery Powered, For KRFTP Thermostat
KRF-REPEATER	70154	RF Repeater, USB Powered, For KRFTP Thermostat
KRF-WINDOW-SENSOR	70155	Window/Door Sensor, Battery Powered, For KRFTP Thermostat
KRF-MASTERSWITCH	70156	Master Switch, Battery Powered, For KRFTP Thermostat

# Wireless 24V RF Thermostat Kit KRF-HEAT-KIT

For Line Voltage Electric Heat Control

## Wireless RF Line Voltage Electric Heat Control System Diagram



### Engineering Specifications

#### KRFTP-B Programmable Thermostat Specifications:

**Supply Voltage:** 24V, 50-60Hz Rating: 0.5A  
**Wireless Operation:** Rf Connect Button  
**Working Frequency:** 915 MHz  
**Heat Pump Control:** (Heating and Cooling).  
**Touch Screen:** Touch Sensitive  
**Temperature Display Range:** 0°F to 95°F (-17°C to 35°C)  
**Temperature Control Range:** 44°F to 90°F (07° C to 32°C)  
**Display Accuracy:** ± 1°F  
**Optimal Start/Stop:** Optimal Start ensures that the set temperature is reached at the scheduled time, while Optimal Stop shuts down the system early upon PROG transition to achieve energy savings.  
**Deadband:** Adjustable 4 to 6 Degrees. (Default 5)

**Differential:** adjustable from 0.5°F to 2.0°F (Default 1°F)  
**2nd Stage Offset:** adjustable from 2°F to 5°F (Default 3°F)  
**Heat Schedule Options:** 5+2 / 5+1+1 / 7-Day (Default: 5+2)

#### KRFLR-120/240V Electric Heat Relay Specifications:

**Power Supply:** 120-240VAC /50-60Hz  
**Power Consumption:** 25VA  
**Relay Contact Rating:** 240Vac/20A  
**Wireless Operation:** Rf Connect Button  
**Working Frequency:** 915 MHz  
**Working Distance:** 30 Meters  
**Approvals:** cULus

# Wireless 24V RF Thermostat Kit

## KRF-HEAT-KIT

For Line Voltage Electric Heat Control

### Available Optional Accessories

**RF Battery-powered Occupancy PIR Sensor**

For automatic temperature setback when room is unoccupied.  
Setback Options: (44°F – 65°F) (Model: KRF-PIR-SENSOR)

**RF 5V USB-C Powered RF Signal Amplifier.**

Designed to amplify RF data signals in order to extend the range of the wireless transmission.  
(Model: KRF-REPEATER)

**RF Battery-powered Window/Door Sensor Operation**

For automatic temperature setback when window or door is left open.  
Setback Options: (44°F – 65°F) (Model: KRF-WINDOW-SENSOR)

**RF Battery-powered Master Setback Switch**

Manual switch to setback all systems that are paired to the switch upon exiting the building.  
Setback Options: (44°F – 65°F)  
(Model: KRF-MASTER-SWITCH)