

# beacon

*In today's connected world the "Internet of Things" (IoT) allows you to see who is at your front door from your desk at work, turn your lights on and off from your smartphone or get an alert when your garage door is left open, among many other things.*

## TAKE CONTROL

- Compatibility with a wide variety of heating or cooling devices
- Change settings locally or connect remotely through Wi-Fi or Cellular networks, so you can keep your operation running smoothly wherever you are.
- Customizable scheduling and alerts based on temperature, electrical current, voltage, and resistance readings, give you complete peace of mind.
- Create multiple users with varying levels of access and control for added security.
- 120/208/240V AC options, switch up to 24 amps



## SMART CONTROLLER COMPARISONS

	Beacon TC	A419	A421	Ranco ETC
<b>HARDWARE</b>				
Heating and cooling modes	•	•	•	•
Adjustable control temperature and range	•	•	•	•
Option for Fahrenheit or Celsius temperature units	•	•	•	•
120/208/240 VAC	•	•	•	•
Max switched load	24A@120VAC, 24A@240VAC	15A@120VAC, 10A@208/240VAC	15A@120VAC, 10A@208/240VAC	15A@120VAC, 8A@208/240VAC
Adjustable short cycle delay for refrigeration applications	•	•	•	
NEMA 4x watertight and corrosion resistant enclosure	•	•	•	
Backlit LCD display	•		•	
Temperature offset (setback) by external device	•	•	•	
Ambient temperature probe for additional control	•			

### REMOTE MONITORING AND CONTROL

View current state remotely through mobile app or web portal	•
Adjust settings remotely through mobile app or web portal	•
Receive alerts and notifications based on user defined thresholds	•
Advanced scheduling and programming functionality	•
Display location of each device on a map in mobile app or web portal	•

### LOG AND ACCESS DATA

Control and ambient temperatures	•
Electrical current and voltage	•
Duty cycle, energy usage, and operating cost	•
Export data to spreadsheet	•

### SECURITY FEATURES

Secure local access with user specific PIN numbers	•
Assign multiple users with varying permission levels	•
Uniquely identify who changed settings and when	•
Lock local access without opening enclosure or switching jumpers	•



### TECHNICAL SPECIFICATIONS

SETPOINT RANGE	-40 to 212°F (-40 to 100°C)
DIFFERENTIAL RANGE	1 to 30°F (1 to 30°C)
INPUT VOLTAGE	110 to 250 VAC, 60 Hz
OUTPUT RELAY CONTACTS ELECTRICAL RATINGS	24 A maximum
SENSOR TYPE	
CONTROL	Waterproof DS18B20, 9.8 foot (3 m) lead length
AMBIENT	Waterproof DS18B20, 9.8 foot (3 m) lead length
ENCLOSURE	NEMA 4X - Watertight