

Oak Series  
Indoor Climate Intelligence

Models: OakRemote & OakPTAC  
Wireless thermostat & Unit Controller



Typical HVAC applications

- 4 Pipe, 2 Fan, Heat/Cool FCU
- 2 Pipe, 2 Fan, Cool Only FCU
- Heat Pump, 2 Fan t
- PTAC, 2 Fan with Heat Strip

The OakRemote wireless thermostat and OakPTAC unit controller automate indoor climate, delivering superior guest comfort, while minimizing operational costs.

Designed for operational simplicity and behind-the-scenes automation, the **Climate Intelligence** platform senses room occupancy, temperature, humidity and openings. It adjusts climate settings to maximize comfort by syncing the operation of all HVAC units in the building.

Integrating with building management systems, looking into outside weather and utility tariffs, this plug & play platform dramatically drops energy and maintenance costs.

**Room Thermal Profiling-** 24/7 sensing and analyzing enables differentiation of controlled zones for true energy optimization.

**Indoor Climate Connectivity-** quickly deployed climate node network of meshed wireless sensors, allow comprehensive sensing of temp, humidity, occupancy, and openings.

**Dynamic Temperature Setback-** allows adaptable guest vacant room setback, based on room thermal profiling and guest preferences.

**Peak Shaving-** weather and utility tariff based machine learning cuts off peak charges.

**Predictive Maintenance-** constant performance analysis enables to identify abnormalities and address them, preceding customer complaints.

**Personalized Climate-** capable of integrating with hotel PMS and personalize climate settings upon check-in.

**Dashboard Agility-** enabling hotel staff to easily adjust every programmed feature per room / floor / site.

	Thermostat	Controller
Case Dimentions (Imperial)	4.72' x 4.72' x 0.79'	4.33' x 3.35' x 1.18'
Case Dimentions (Metric)	120mm x 120mm x 20mm	110mm x 85mm x 30mm
Screen Dimentions (Imperial)	1.93' x 1.42'	NA
Screen Dimentions (Metric)	49mm x 36mm	NA
Operating Voltage	3V DC - 2 or 4 "AAA" cells	24V AC/DC or 85-240VAC
Operating Time (lab tested)	3 years (standard usage)	NA
Operating Temperature	Commercial: 32-113°F Extended ranges available upon request	Commercial: 32-113°F Extended ranges available upon request
Contol Outputs		Fan High (Bl) Fan Low (G) Compressor (Y) Heat/RV (W)
Wired sensor terminal		Temperature 1 Temperature 2/Current sense PIR IR RX/TX
Temperature sensor	Temperature range: beyond operation range Accuracy: 1°F 0.5°C	Wired temperature sensor: 14-185°F -10-85°C
Humidity sensors	Humidity range: 0-100% Accuracy: 2%	Accuracy: 1°F 0.5°C
Occupancy sensor	Detection distance: up to 23 f Beam width: 94° (H) x 82° (V)	Wired PIR sensor Detection distance: up to 33 f Beam width: 110° (H) x 60° (V)
Additional integral sensors	Light sensor	
Additional available wireless sensors	Occupancy sensor Magnetic door/window sensor Temp/humidity sensor	
RF frequency	2.4GHz	2.4GHz
RF transmission power	7dBm/20dBm (high power version)	20dBm (high power version)
Other means of communication	IR	IR
Certification	FCC. FCC ID: 2ALPH-E18	FCC. FCC ID: 2AH19YB25301