

Oak Series

Indoor Climate Intelligence

Model: OakSocket

Wireless Unit Controller



The OakSocket controller analyzes data from HVAC units and various types of sensors, and controls them to create comprehensive climate automation in any given space, instantly. With a simple Plug & Play installation, the OakSocket is the ideal solution to digitizing old PTAC units, and uniting them into one centralized platform.

The device is easily deployed as an intermediate connector between the electrical outlet [C,H and M] and the HVAC unit (Split units, PTAC units, and more). It can interact with the unit via IR transmission or wired communication, as well as on a variety of fields and frequencies. It can also initiate a full unit activation or shutdown via dry electrical contact.

The OakSocket can receive data from any number of occupancy sensors, up to 8 window sensors and wired/wireless temperature and humidity sensors, for 360° climate control over large, complex zones.

Supports High Voltage appliances

Up to 240V operating voltage enables connection to large scale HVAC units.

Peak Shaving

The OakSocket monitors real time energy consumption. Weather and utility TOU machine learning enables it to cut off peak charges.

Room Thermal Profiling

24/7 sensing and analyzing enables differentiation of controlled zones for true energy optimization.



Compatible with Oak Series User Interfaces
Oak Remote and Online Dashboard.

- ✓ **Plug & play with any HVAC unit**
- ✓ **Multiple sensor capability**
- ✓ **Easily Programmable via web platform**

	OakSocket
Body Dimensions	1.18' x 2.17' x 3.74' (30mm x 55mm x 95mm)
Weight	140 g
Operating Communication Range	Through walls: up to 100ft (30m)
Operating Temperature	Commercial, 32-113°F (0-45°C) Extended ranges available upon request
Control Outputs	Thermostat I/F IR RX/TX
Supply	100-240V ~ 50-60Hz
Self-consumption	0.1A
Switching Capacity	20A, power factor 0.6-1
Additional Integral Sensors	Current sensor
Additional Wireless Sensors	Occupancy sensor Magnetic Door/Window sensor Temperature/Humidity sensor
RF Frequency	2.4GHz
RF Transmission Power	19 dBm
Other Means of Communication	IR
Oak Series Compatibility	OakRemote, Online Dashboard
Certification	FCC,UL 60730-1 FCC ID: 2ALPH-E18

P/N	OakSocket-V2-N5-15	OakSocket-V2-N5-20	OakSocket-V2-N6-15	OakSocket-V2-N6-20
Plug form				
Socket form				

Typical HVAC applications

- PTAC, 2 Fan Compressor heat/cool or Heat Strip
- IR controlled split A/C or PTAC,