

Power SG[®] CR 200 Communications Repeater



Power SG[®] CR 200 is a smart grid data repeater enabling real-time direct residential load control with precision and verification. This device provides connectivity to DLC 2000 direct load controllers, TS 100 temperature sensors and DC 2000 data concentrators through a 2.4 GHz wireless mesh network. Communications repeaters are used to fill out the mesh network to assure reliable communication to all controlled devices. The CR 200 is designed to be installed in cobra head and ornamental street lights with standard photocell connectors.

Key Features:

- two-way, real-time communications
- wireless mesh network connectivity
- increases mesh network communications performance

Product Specifications

Input Power Requirements

- Voltage 100 VAC to 250 VAC
- Through Current Capacity 15 A
- Frequency 50 to 60 Hz
- Maximum Power Consumption 2 W

Environmental Specifications

- Operating Temperature -40 °C to +55 °C
- Relative Humidity < 95%

Physical Specifications

- Dimensions (Height x Diameter) 5.8" x 3.6"
14.7 x 9.1 cm
- Weight 6 oz/0.2 kg
- Electrical Connection NEMA twist lock receptacle



Software

- Embedded Power SG[®] smart grid firmware designed for interoperability with an open architecture

Certifications/Standards

- Certified to UL773
- Certifications (BPL Global DLC003) FCC CFR47, Part 15 Subparts B and C (FCC ID SQB-NMSMOD0001)

Communications

- Local Communications 2.4 GHz Wireless Mesh
- Mesh Network Capabilities Self Configuring Devices
Self Healing Network
2-Way Communications
- RF Performance ISM band 2.400-2.485 GHz
- Output Power +26 dbm
- Sensitivity -102 dbm
- RF Baud Rate 250 Kbps
- Outdoor LOS Range 6 Miles
- Device Status Reporting Every 15 Minutes
Upon Event/Change in State