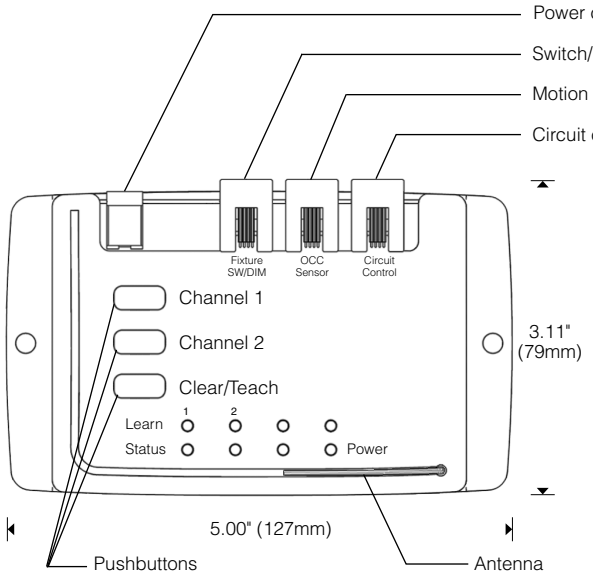
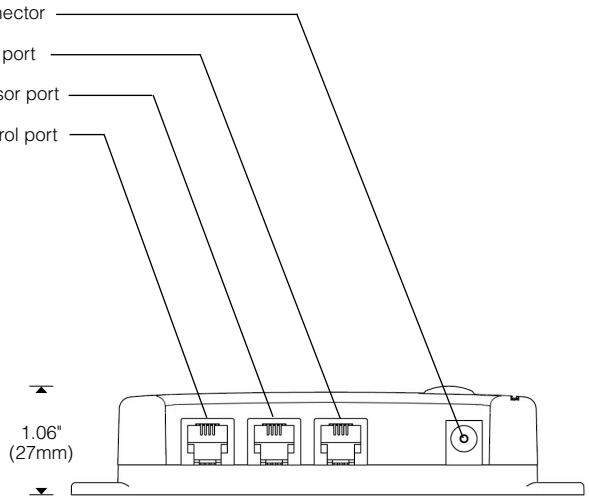
# Wireless Control Hub **Manual-ON / Auto-OFF** CCH-EN-02

**Top View**




**Rear View**




NOTE: Plug-in power supply included (not shown).

## Overview

The **CCH-EN-02** control hub uses wireless technology to extend daylight harvesting, demand response, and manual-ON/auto-OFF room switching and occupancy control to portable **tambient** luminaires. It also works in concert with the **CFC** furniture circuit control interface to control power receptacles in modular office workstations. The control hub adjusts luminaire light output based on daylight and occupancy levels communicated via wirelessly coupled photo and occupancy sensors. Remote control via wirelessly coupled switches, active circuit transmitters, and building energy management system gateways is also supported as well as control via motion sensors connected directly to the hub. Manual-ON/auto-OFF programming ensures compliance with the most aggressive energy codes in applications where portable furniture-mounted general lighting systems are deployed. Connected lighting and plug load circuits are energized only via EnOcean 902MHz PTM switching telegrams and manual pushbuttons on the hub. Occupancy telegrams initiate auto-OFF actions only.

The **CCH-EN-02** mounts under work surfaces in office areas where **tambient** luminaires and furniture plug loads are to be controlled. Two channels of plug-load control are provided, and luminaire dimming and on/off off control is provided in concert with Channel 1.

See also model **CCH-EN-03** for auto-ON/auto-OFF control of furniture plug load circuits only.

*To order:*

**CCH-EN-02-WH-0** Wireless manual-ON/auto-OFF control hub

## Features

- ***Simple installation*** *– plug into standard 120-volt convenience power receptacle.*
- ***Reconfigurable*** *– can be repositioned as space or furniture layouts occur, new tenant fit-outs require, or building life-cycle changes mandate.*
- ***Smart*** *– embedded configuration software allows the user to easily adjust controller and sensor settings for uncomplicated commissioning.*
- ***Versatile*** *– works seamlessly with The Lighting Quotient wireless wall switches, motion and light sensors, and furniture circuit control interface to deliver occupancy and daylight responsive control solutions.*
- ***Flexible*** *– designed for open plan or private offices.*
- ***Sustainable*** *– wireless communication eliminates much of the wiring normally required for multi-zone distributed lighting and plug-load control.*

## Specifications

**Power supply:** 120VAC 60Hz to 24VDC plug-in power supply with integral 6ft long 24VDC power cord and 5.5mm x 2.1mm barrel connector (center positive).

**Power consumption:**

- 1.0 watt, hub only, full load; with **CMS-RJ** add 0.05W ea.
- 2.5 watts, hub with Furniture Circuit Switching Interface, both relays ***closed***
- 4.5 watts, hub with Furniture Circuit Switching Interface, both relays ***open***

**Communications:** 902 MHz EnOcean® radio.

**Operating temperature:** 14°F to 113°F (–10°C to 45°C).

**Relative humidity:** 5% to 95% RH (non-condensing).

**Weight:** 6.2 oz. (176 grams) including power supply.

**Dimensions:** 5" overall width x 3.11" x 1.06" (127mm overall x 79mm x 27mm)

**Mounting:** Surface mount via double-sided tape or screws by others.

**Safety listing:** UL listed Class II power supply.

**Agency listing:** FCC, IC.

**Warranty:** 2 years.

CO 5.0


THE LIGHTING **QUOTIENT**

114 Boston Post Road, West Haven, Connecticut 06516, USA
Voice 203.931.4455 • Fax 203.931.4464 • **thelightingquotient.com**

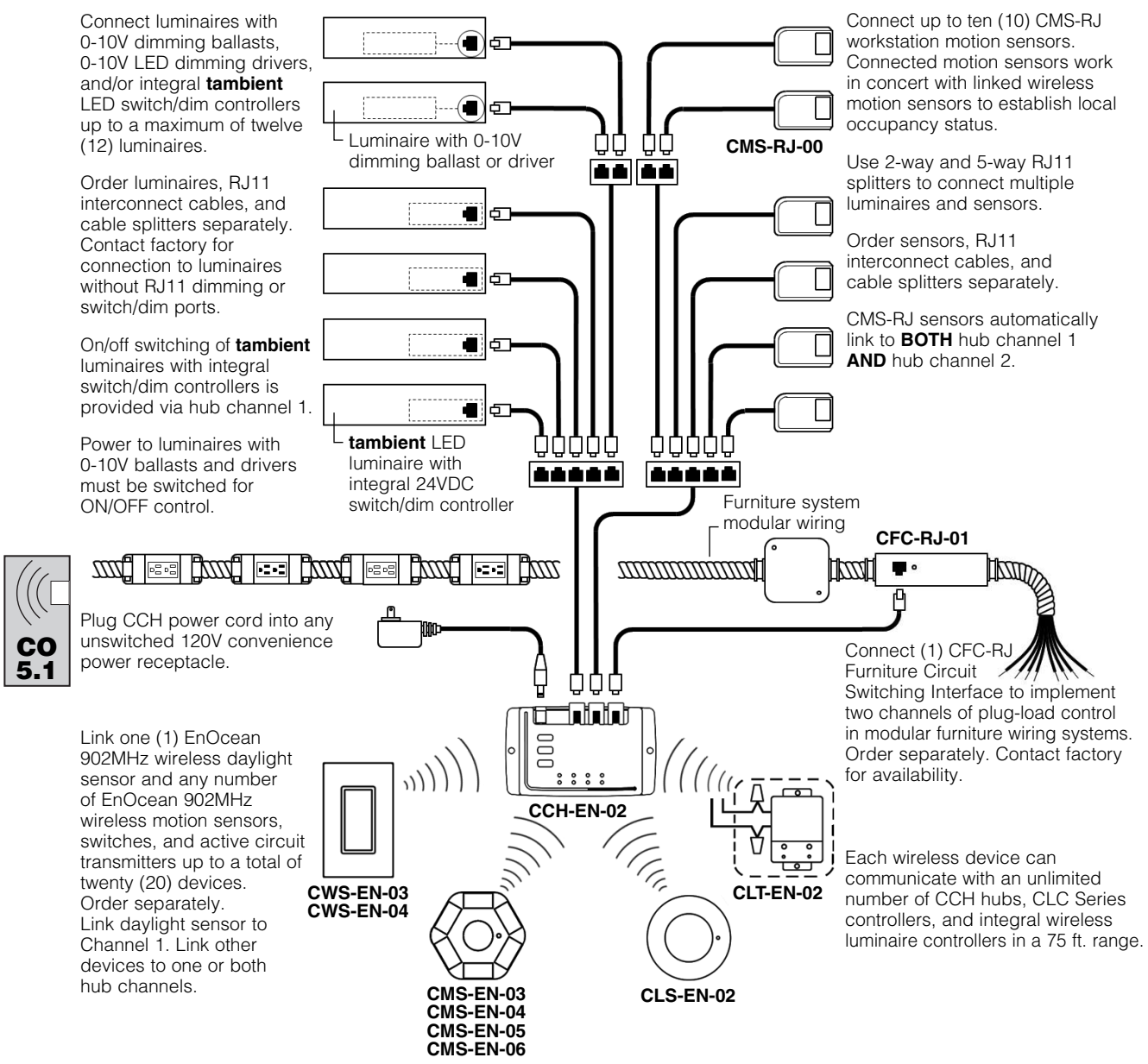


*Certain products illustrated may be covered by applicable patents and patents pending. These specifications supersede all prior publications and are subject to change without notice. Copyright © 2016 Sylvan R. Shemitz Designs, LLC, all rights reserved.*




**US Patent 9236738. Other US and foreign patents pending.**

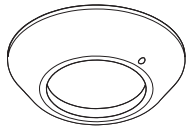
## Typical Plug-and-Play Connection Diagram



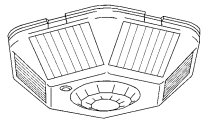

CO 5.1

## Compatible Devices

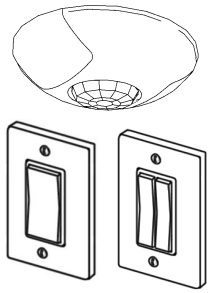
**Note:** Devices pictured are not precisely in scale to each other.



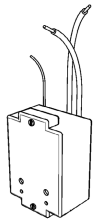
**Self-powered Wireless Daylight Sensor**
**CLS-EN-02-WH-0**



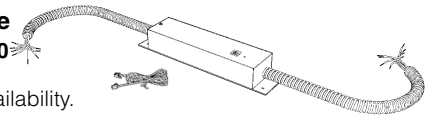
**Self-powered Wireless Motion Sensors**
**CMS-EN-03-WH-0**
Large motion occupancy sensor
**CMS-EN-04-WH-0**
Small motion occupancy sensor
**CMS-EN-05-WH-0**
Large motion vacancy sensor
**CMS-EN-06-WH-0**
Small motion vacancy sensor



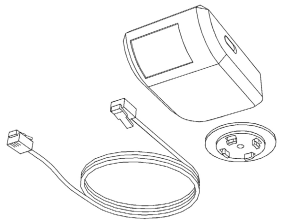
**Self-powered Wireless Wall Switch/Dimmers**
**CWS-EN-03-WH-0**
Single channel
**CWS-EN-04-WH-0**
Dual channel



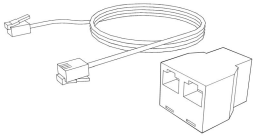
**Active Circuit Wireless Occupancy Transmitter**
**CLT-EN-02**
120-277V.



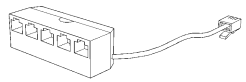
**Furniture Circuit Switching Interface**
**CFC-RJ-01-M-06-H1-0**
8-wire, 4 circuit, 120V.
Consult factory for availability.



**Workstation Motion Sensor**
**CMS-RJ-00-GR-0**



**RJ11 Extension Cables**
2-way splitter/coupler included.
**CRJ-11-010-BK** (10 ft.)
**CRJ-11-015-BK** (15 ft.)
**CRJ-11-025-BK** (25 ft.)
**CRJ-11-035-BK** (35 ft.)



**5-way Cable Splitter**
**CRJ-SP5-WH** (5-way)