• Ceiling-mount occupancy sensor
• Passive infrared motion detection affords immunity to false triggering
• Discreet, low-profile appearance blends nicely with installation surface
• Extremely accurate and reliable sensing
• IP64
• Fully digital circuitry for low cost and high reliability
• Built-in ambient light recognition
• Control system interface via Cresnet®
• Grace Occupancy feature

The CH-LMD2 is a low-profile, ceiling-mount occupancy sensor designed for small areas to detect when the room is occupied, making it great for use in conference rooms, hallways, and private offices. Passive infrared motion sensing affords excellent reliability for control of lighting, climate control, and other devices in the room, while also providing superior immunity to false triggering. Cresnet® connectivity allows for direct connection to a Crestron® control system without requiring any add-on modules or power supplies.

Passive Infrared Occupancy Sensing
Passive infrared technology works by sensing temperature changes or movements between different windows that the sensor lens projects, achieving dependable motion detection with superior immunity to false triggering from vibrations, inanimate objects, or movement in an adjacent corridor. Sensitivity is adjustable for optimum performance.

Walk-Through Mode
The CH-LMD2 features a walk-through mode that provides specialized behavior in instances of brief occupancy, turning lights off quickly when a person enters and exits the room within a period of 90 seconds.

Grace Occupancy Feature
When the lights turn off in a room programmed to vacancy only mode, a 15-second grace period starts during which the room lights can be turned on again by simply waving a hand to trigger the sensor.

Ambient Light Recognition
A built-in photocell is included for detection of ambient light in the room. When enabled, the photocell can override the occupancy sensor if the ambient light level is above a set threshold, preventing lights from turning on when there is sufficient daylight in the room and also performing daylight harvesting and dimming when appropriate. Programming logic must be included to utilize this override feature.

Versatile Installation
The CH-LMD2 was designed to achieve a discreet, nearly hidden appearance when installed in the ceiling.

Cresnet®
Cresnet provides a simpler solution for configuring and wiring sensors as part of any complete Crestron system. Cresnet is the communications backbone for Crestron lighting dimmers, keypads, shades, thermostats, and many other devices. This flexible 4-wire bus provides data communications and 24 Volts DC power for all of the devices on the Cresnet network. Additional features enable quick and easy setup for use with a Crestron IPAC or iLux® system.

IR Remote
A variety of parameters can be set for the CH-LMD2 by using the GLS-REMOTE-ODT/OIR remote (sold separately). This IR remote eliminates the need for a ladder to commission or set up any system. The installer can simply stand underneath the sensor and use the remote to complete setup functions and fine tune sensor settings after installation:

• Adjust the sensitivity for vacancy and occupancy states separately
• Enable or disable Walk-Through mode
• Change settings for Timeout feature
• Turn LEDs ON/OFF during normal operation
• Set or change the Cresnet ID
• Use force vacancy or factory reset
**SPECIFICATIONS**

**Sensing**

**Sensor Technology:** Passive Infrared

**Ambient Light Recognition:** Built-in photocell (0-1000 lux)

**Coverage Distance:** 5m (16.4 feet)

**Coverage Pattern:** 100 degrees

**LED Indicators**

IR: (1) Red LED, indicates infrared motion

Remote Settings: (1) Green LED, indicates remote settings

**IR Remote (sold separately)**

Parameters and settings available through IR remote:
Separate Occupancy and Vacancy sensitivity settings;
Timeout (30s, 2m, 5m, 10m, 15m, 30m);
Walk-Through mode "Short Timeout" (Enable/Disable);
LEDs (Enable/Disable);
PIR Sensitivity (High, Med, Low, OFF), with the option to set separate occupancy and vacancy settings;
ID of Sensor;
Factory Reset;
Force Vacancy;
4 Custom buttons (for future additional features)

**Connection**

NET: ~10 inch (~25 cm) 4-wire pigtail + (4) UY connectors; Connects to Cresnet control network

**Environmental**

**Temperature:** 32° to 104°F (0° to 40°C)

**Humidity:** 10% to 90% RH (non-condensing)

**IP rating:** 64

**Power Requirements**

**Current Consumption:** 45 mA @ 24 Volts DC

**Cresnet Power Usage:** 1 Watt

**Enclosure**

Cylindrical plastic, drywall mountable in a 25 mm (0.48 in) diameter round hole

**Dimensions**

**Diameter:** D1: 38 mm (1.50 in), D2: 25 mm (0.48 in)

**Depth:** 48 mm (1.89 in)