











AIRPORT



INSTITUTIONAL BUILDINGS



OFFICES



HOSPITALS



MALLS

BENEFITS



True Wireless solution, reduce wiring and install labour cost with reduction in wiring.



SPACE AND ENERGY OPTIMIZATION

Insights from the data collected ,wirelessly, gives a deep understanding of space and light utilization, helps in Space and Energy optimization of the Building



LOW ENERGY CONSUMPTION

Lighting energy consumption in the building can be reduced up to 45% * with the use of IoT technology, thus cutting energy costs and meeting green goals. An additional 16%* energy can be saved through HVAC* based on the inputs of ambient and occupancy sensor



EASY AND FAST INSTALLATION

Wireless sensors are easy to install, programme and service. The solution is ideal for both greenfield and brownfield projects, given that complete system installation can be deployed in a few weeks. This system reduces installation time by 55%.



Optimum lux levels are maintained at all desks, giving an occupant the right amount of light, enhances productivity.



OCCUPANCY-ANALYTICS & CONTROL

Lighting is switched on/off /dimmed based on occupancy sensing, energy pilferage is avoided and analytics /insights helps for space utilization



DAY LIGHT HARVESTING

For areas in the building that receive abundant natural light, this system reduces the use of artificial lights.



RETROFIT & MULTI-CEILING OFFERING

It is easy to move this wireless and retrofittable solution in case of shifting offices building or even changing its position within the building office.



Lights across multiple floors, buildings, or sites can be controlled and optimised as per individual needs. Solution components can be easily accessed from anywhere in the facility via the commissioning or centralised software.



Honeywell's lighting management solution alerts the facility management in case of malfunctions in the solution component. The server also detects battery levels of sensors to prevent downtime. These ensure predictive maintenance and hence reduces the cost of maintenance



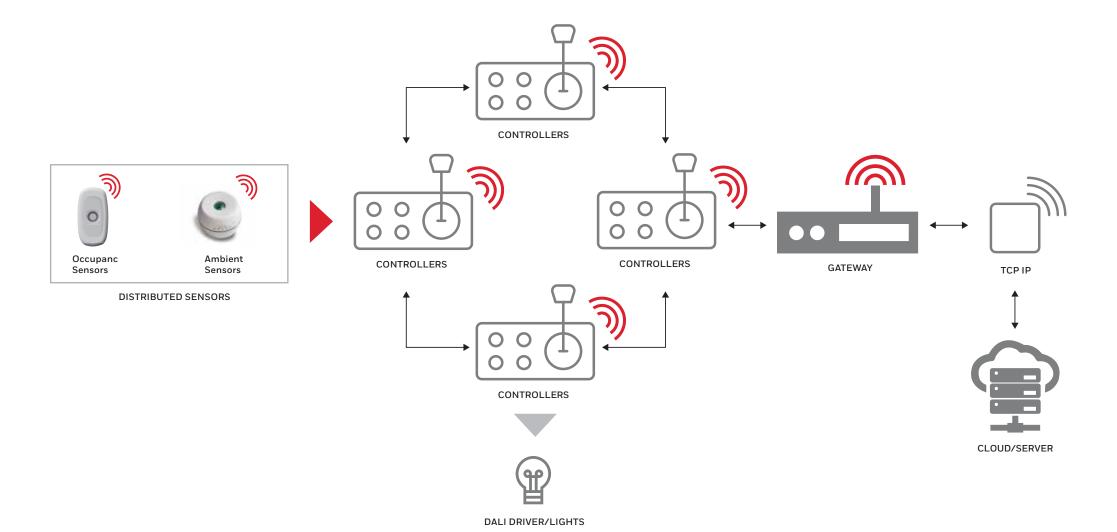
Batteries in the sensors are designed to last longer than ordinary batteries.



Available in black and white to complement all kinds of ceilings.



SYSTEM ARCHITECTURE



PRODUCT COMPONENTS



WIRELESS OCCUPANCY SENSORS

Wireless Occupancy Sensors are placed in the ceiling above workstations, cabins, meeting rooms and other office areas. These sensors detect human presence and transmit this data to the wireless controllers, which then switch the lights on or off accordingly.

- Passive infrared sensor for detecting human presence
- Field of View: 90°
- Data communication to DALI Light Controller over Zigbee
 - Transmit Output Power: +4 dBm
 - Receiver Sensitivity: -17 dBm
 - Transmission Range: 50 ft (in open air)
- Battery powered device
- Uses CR123A battery (1,400 mAh)
- Configurable time-out interval
- Compact ceiling and wall-mountable device



WIRELESS AMBIENT SENSORS

Wireless Ambient Sensors are placed across the floor to measure lux levels. This data is used to adjust the intensity of the light, thereby allowing daylight harvesting and increasing energy savings.

- Integrated sensor for measuring temperature, humidity and lux levels
- Range:
- Temperature: 0-55°C
- Humidity: 0-100% RH
- Lux: 0-100,000 Lux
- Measurement Accuracy:
- Temperature: ±0.4°C
- Humidity: ±3% RH
- Data communication to Gateway over Zigbee
 - Transmit Output Power: 0 dBm
 - Data Rate: 250 kbps
- Battery powered device
- Coin cell CR2477N (1,000 mAh)





WIRELESS DALI LIGHT CONTROLLER

The DALI Controller functions as a local data collector and issues a control signal to up to 64 DALI lights over the DALI loop. It also acts as a part of the local mesh network.

- Control device for DALI2.0 lights
- Can control up to 64 lights each
- Receives data from Occupancy Sensors over Zigbee
- Lighting control methods: occupancy-based, manual override
- Communicates occupancy data and receives control commands from the Gateway
- Wireless operating parameters:
- Transmit Output Power: +4 dBm
- Receiver Sensitivity: -17 dBm
- Data Rate: 250 kbps
- Operating Voltage: 85-300 V (AC)
- Ceiling-mountable device

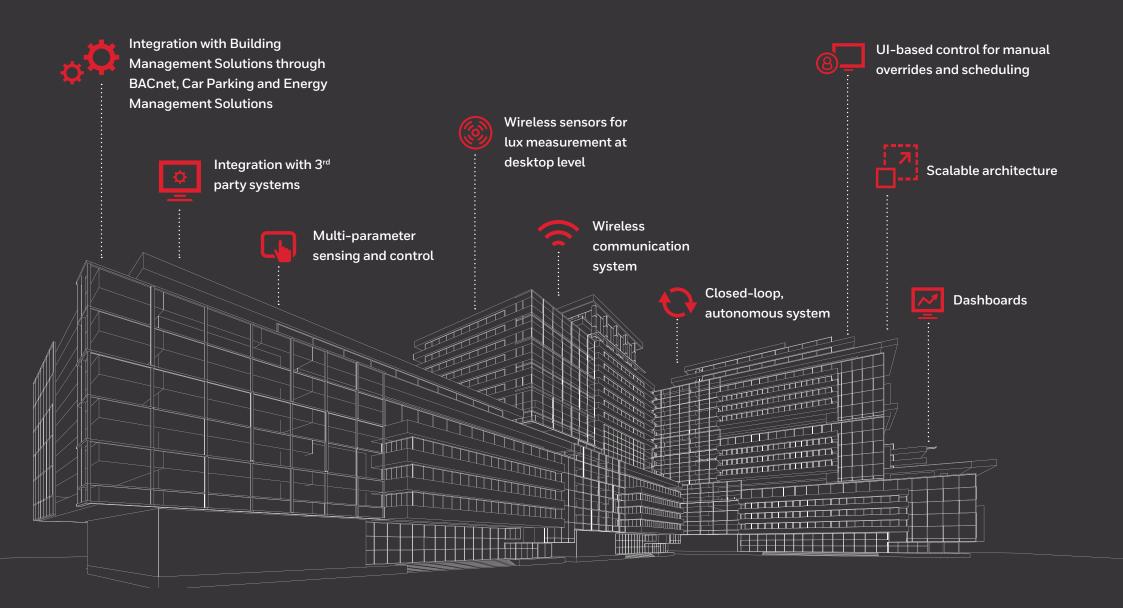
GATEWAYS

Gateways are placed across the floor to collate data from occupancy and ambient sensors from all zones and transmit it to a central server.

- Manages network and data monitoring of the Lighting Management System
- Zigbee network co-ordinator
- Can transmit data over TCP/IP network to the server
- Wi-Fi and ethernet interface
- Built-in data logging capability
- Wireless Parameters:
- Transmit Output Power: +10 dBm
- Receiver Sensitivity: -90 dBm
- Can connect to 60 Zigbee devices
- Ceiling and wall-mountable

We have a wide range of controllers please reach out to us for more details.

THE HONEYWELL ADVANTAGE



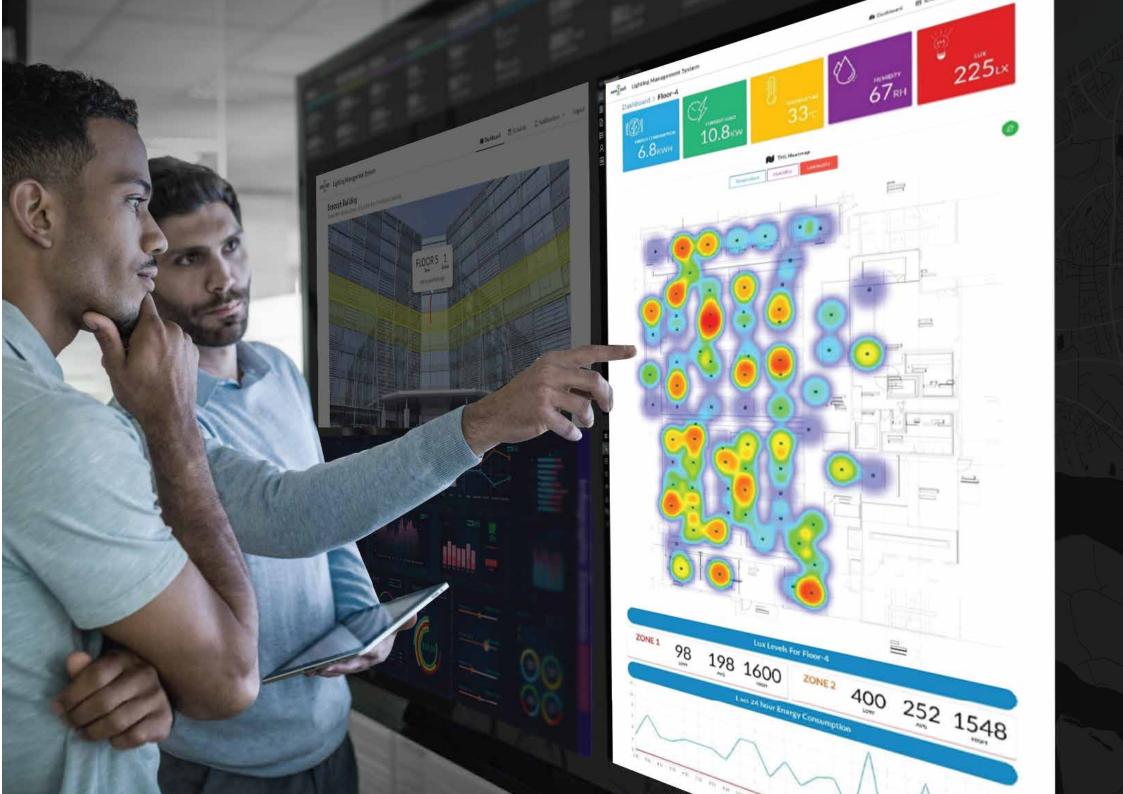
USER INTERFACE DASH BOARD

Honeywell's IoT platform is a combination of software and hardware devices. Operations for the system and its devices are managed through the software while a Facility Manager or an electrician can operate the complete system through a web app.

The web app allows authorised Facility Managers to view and set controls for the entire facility. The software facilitates scheduled and manual overrides, whenever needed. In addition, it boasts of dashboards with extensive analytics.

- Single page access for any device at any site
- Allows anytime, anywhere access
- Insights
- Optimises lighting operations remotely through an intuitive dashboard that provides lighting usage insights





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