Enlighted

Automated HVAC Control

Enable smart heating, ventilation, and air conditioning for enhanced building value

5M	Up to **90%**	**1000+**	**60**	**2M**
Sensors installed	Lighting energy savings	Customer installations	Countries	Tons of total CO_2 reduction

Building owners and operators face a current and critical challenge: To reduce energy consumption, reduce operating costs, and meet sustainability goals, while ensuring occupant comfort.

Smart buildings use Internet of Things (IoT) platforms to operate autonomously, meet efficiency goals, and reduce their own carbon footprint. Implementing an IoT-enabled building management system is a strategic imperative for companies committed to protecting global health, the environment, and preserving company value for investors.

Capabilities

- Building HVAC automation
- Energy use dashboard
- General lighting control overrides

Data-driven operational insights

The Workplace Intelligence Platform from Enlighted uses patented sensors housed in every lighting fixture in a building to capture information about occupancy and usage patterns, plus temperature and lighting levels, 65 times a second, 24 hours a day. This data drives analytics and intelligent software applications from Enlighted and our partners, to improve and enhance operational efficiency, reduce energy use, and create a comfortable, productive environment for building occupants.

Reduce energy and increase efficiency

The HVAC control system from Enlighted integrates with building management systems (BMS) to automatically adjust HVAC levels based on actual occupancy and ambient temperature, for additional savings of up to 36 percent. Achieve up to 90 percent energy savings when combined with LED fixtures using automated lighting control.

Improved occupant efficiency

Integration with HVAC systems allows heating and cooling to be automatically adjusted zone by zone, to meet a variety of occupant comfort levels and activities. Rich sensor data types allow advanced predictive control of HVAC based on room occupancy and movement of occupants within the space, not just on ambient temperature as done by traditional HVAC controls, allowing more efficient operation of the HVAC system in responding to changing heat loads.

Value-based return on investment (ROI)

The investment in sensor-based lighting within a new or retrofit project can seem challenging. However, the HVAC control system from Enlighted creates energy savings that can pay for the cost of installation, with energy savings continuing for many years to come.

> **We reduced our energy spend where the system was installed by 65–80%, while increasing the comfort and safety of building users.**

KENNY SEETON
Central Plant Manager
California State University, Dominguez Hills

BACnet integration

The Lighting BACnet/IP interface enables seamless integration between our Lighting Control network, and any BACnet® compatible Building Management System. This interface allows access to lighting control features such as dimming, emergency overrides, and demand response. The BMS with BACnet/IP capability lets building operators smoothly integrate, monitor, manage, and control the Enlighted lighting system through Group and Individual BACnet points.

Smarter heating and cooling

Enlighted sensors gather occupancy data by zone, and integrate that data with BMS systems using BACnet, opening the door to increased energy cost savings through more efficient HVAC use.
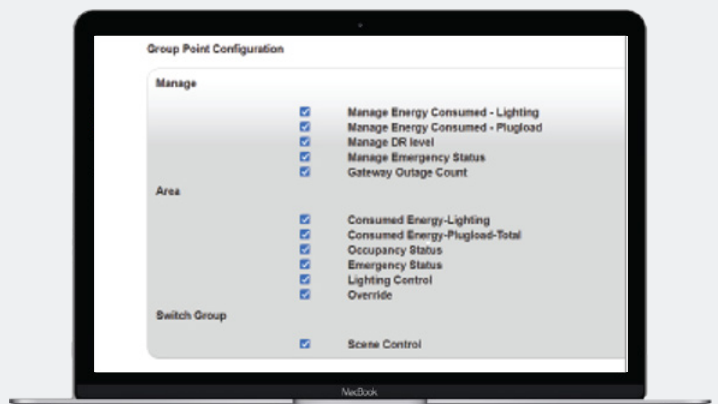
Occupancy sensing
Dynamically optimize heating, air conditioning and airflow based on occupancy.

Configurable schedules
Customize time schedules by building zone to balance best occupant comfort with energy efficiency.

Custom reporting
Create custom compliance reports with rich reporting and monitoring via Building Management Systems.

Overview of BACnet/IP Module

Enlighted

Building Robotics, Inc.,
a Siemens Company

Turn Everyday Spaces into Extraordinary Places

Wherever space, people and work meet, Enlighted empowers organizations with the technology to transform real estate spaces into regenerative places that fuel positive impact for people, portfolio, and our planet.

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