

Description

Autani's Light Level Sensor measures and reports the level of available natural light. Used in conjunction with suitable controllers, it enables implementation of energy saving daylight harvesting control systems.

Daylight harvesting is a great way to save energy and cost while enhancing worker satisfaction by allowing personal control of light levels. Lighting control systems employing this technique measure natural light available in a building and only add as much artificial light as necessary.

The Light Level Sensor uses a solar cell both to measure the amount of available natural light and to generate the required energy for its operation. Natural light level is measured every minute and significant changes (> 50 lux) are transmitted immediately. In addition, a heartbeat message containing the current light level is transmitted at random intervals between 20 to 30 minutes.

Applications

Autani's Light Level Sensor is suitable for renovation, upgrade, and new construction projects.

- Private & Open Offices
- Corridors & Hallways
- Classrooms & Gymnasiums
- Warehouse Spaces & Manufacturing Areas
- Patient Care Rooms
- Transportation Terminals
- Retail & Grocery Stores



Features

- Saves money and energy in facilities by protecting against over-illumination
- Can be quickly deployed without wiring
- Maintenance free thanks to the ability to harvest the energy required for operation
- Significant changes in light are reported immediately to ensure that lighting levels are consistently within an optimal range
- Compact, unobtrusive design
- *autaniNet* secure wireless 2.4GHz communications with other network devices
- Autani's *EnergyCenter* products can operate independently or as an integrated solution

Specifications

POWER SUPPLY

- Solar energy harvesting

MEASUREMENT RANGE / RESOLUTION

- 0 ... 1020 lux / 4 lux

TYPICAL ACCURACY

- +-5 % at full scale / 68° F

MEASUREMENT INTERVAL

- 1 minute

TRANSMISSION INTERVAL

- Immediate if change > 50lux versus last transmission
- Heartbeat every 20 to 30 minutes (affected at random)

RF STANDARD

- EnOcean 902 MHz

TRANSMISSION RANGE

- 80 ft. (25m)

DIMENSIONS (LXWXD)

- 6.30 x 2.36 x 1.15in (160 mm x 60 mm x 37 mm)

WEIGHT

- 4.4 oz. (125 g)

MOUNTING POSITION

- At ceiling, close to ambient light source (window)

ENVIRONMENT

- Indoor use only / 32° to 140° F (0° to 60° C)
- 20% to 85% relative humidity (non condensing)

AGENCY COMPLIANCE

- FCC, IC, RoHS



Indoor use only

Ordering Information

SKU	Description
A05-22-0204-01	Light Level Sensor, self-powered and wireless