



## LIGHT METERS

### *Wireless Light Meters*

#### Cast light on lighting.

Are you lighting up valuable assets like art in a gallery, exhibits in a museum, or plants in a greenhouse?

Then it's essential to know how long these possibly priceless things should be under the lights, plus the intensity of the lighting, so you keep them protected and healthy.

**Alegna's Wireless Lux and PAR Light Meters** can measure all your lighting systems in virtually any application or use case to ensure assets receive the exact light they require.

Our **Lux** (light in Latin) **Light Meter** is ideal for monitoring light-sensitive materials and assets used in pharmaceutical manufacturing, food ingredient production, art galleries, museums, facility management, and more.

The **PAR** (photosynthetically active radiation) **Light Meter** is perfect for connecting the performance of greenhouse and grow house lighting systems or even sunlight for outdoor agricultural operations to the Internet of Things.

Both Light Meters provide the actionable data you need to make the best lighting decisions for the critical assets that are most important to your organization.

#### Key Lighting Terms

**Lux** is a unit of illumination and energy used to measure light intensity from a lamp or light source as perceived by the human eye.

**PAR** or photosynthetically active radiation is the waveband in the light spectrum that plants use for photosynthesis.

## Spotlight on Savings

Discover how our Lux and PAR Light Meters can help you optimize lighting across your operations to protect assets and your bottom line. Learn more about our innovative light meters below.

## Applications

- Greenhouse Monitoring
- Agriculture Monitoring
- Building Occupancy
- Grow House Monitoring
- Parking Structures
- Solar Panel Monitoring

## Smart Sensor Features & Benefits

### Features

- 2,000+ ft. Range through 18+ Walls
- Up to 12 Years of Battery Life
- Automated Data Logging

### Benefits

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

**NOTE: SEE MORE SMART SENSORS BELOW.**

# ***Wireless Lux Light Meters***

## **See Assets in a Good Light.**

The Alegna™ Wireless Lux Light Meters will let you.

These meters enjoy a broad customer base because they help protect light-sensitive materials and irreplaceable art and play a vital role in security.

## **What Does a Lux Light Meter Do?**

This Alegna™ mount-and-monitor meter measures light intensity in lux (the SI unit of illumination, equal to one lumen/square meter). These light meters have a measurement range of 0–83,000 lux (indoor range) that spans from moonlit nights to full daylight.

If lux measurements move outside of user-set limits, these meters alert designated users via text, email, or call for correction.

## **Who Counts on Lux Light Meters and Why?**

Manufacturers and pharmaceutical firms: Protect light-sensitive ingredients linked to appearance, safety, potency, and flavor.

Art galleries, museums, and universities: Shield unreplaceable artifacts or samples.

Facility managers: Be sure parking lots, corridors, and other vital areas are properly lit.

Explore Alegna's commercial and industrial-grade Lux Light Meter solutions below—find the perfect fit whether you're installing modern art or mass-producing commodities.

## **Applications**

- Greenhouse Solar and Light Level Tracking
- Commercial Property Light and Electricity Management
- Monitoring of Apartment Property Common Area Lights
- Monitor for Blown Lights on Walkways or in Public Areas
- Art and Museum Gallery Light Metering
- Grow House Light Monitoring
- Monitoring for Blown Lights in Parking Lots Garages
- Office Occupancy Monitoring

## Choose the Right Smart Sensor for You!

**Enterprise AA-battery powered:** Our most popular type is ideal for typical commercial and enterprise environments, such as server rooms. A 2,000+ ft. through 18+ walls wireless range when connected to an Alegna X1L Gateway readily covers most facilities.

**Industrial:** Sensor's weatherproof, NEMA-rated enclosure withstands demanding indoor/outdoor use, e.g., warehouses and production facilities.

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# Wireless PAR Light Meter

## Let plants grow in a good light.

It's basic botany—plants get the energy to grow from light through photosynthesis. But not just any light. Crops require a specific amount of light during a particular timeframe. The ideal light for plants comes from the wavelength known as the photosynthetically active radiation (PAR) spectrum. Alegna's PAR Light Meter monitors this spectral range (389 to 692 nanometers) from indoor and outdoor light sources, including LEDs.

## See the Light Plants Need to Stay Healthy

Alegna's PAR Light Meter is a full-spectrum quantum device that measures PAR in **photosynthetic photon flux density (PPFD)**. One of the two important light readings you receive from the PAR Light Meter is PPFD, indicated by micromoles per square meter per second ( $\mu\text{mol}/\text{m}^2/\text{s}$ ). The PPFD reading shows both light intensity and the amount of light that is on a square meter of crops each second.

Another critical reading from the PAR Light Meter that helps assess plant health is **Daily Light Integral (DLI)**. The DLI measurement indicates the PAR level or PPFD accumulation that falls on a square meter of crops during 24 hours. It's calculated in moles of light per square meter per day ( $\text{mol}/\text{m}^2/\text{d}$ ).

## Reap the Benefits of Monitoring the Crop Canopy

Monitoring with wireless PAR Light Meters, commercial growers, greenhouse staff, and grow house managers can simplify their smart agriculture operations, and:

- Monitor and manage grow light performance to reduce operating costs.
- Optimize lighting in various environments to maximize growth and quality.
- Track light exposure and duration to maintain saturation levels, preventing damage and inhibited or excessive growth.

## Applications

- Greenhouses
- Growth Chambers
- Aquaculture
- Grow Houses
- Aquariums
- Outdoor Growing Environments

## Smart Sensor Features & Benefits

### **Features**

- 2,000+ ft. Range through 18+ Walls
- Up to 12 Years of Battery Life
- Automated Data Logging

### **Benefits**

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

**Call Us Today at (770) 855-3328 for more information. Alegna's Team Is At Your Service!**