



Intellia Wireless Light Meter INT-Light-01

General Description

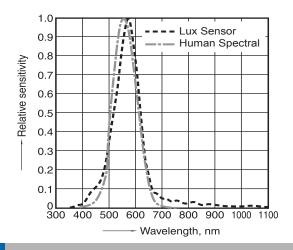
The Intellia Wireless Light Meter measures the intensity of light from 0–83,000 LUX (luminescence/unit area), and an optional detection reading of light/ no light. By default, the detection reading is triggered on LUX value being above or below the configured minimum threshold value of the sensor.

- Measures the amount of light present
- Can alert upon immediate detection of light or a change in light intensity
- · Highly sensitive photodiode

Principle of Operation

The Intellia Wireless Light Meter uses a highly sensitive photo-diode to detect and measure the intensity of light around the device. The sensor is also capable of alerting upon detection of a change in lighting conditions. The sensor returns a value in "LUX" to the Intellia Online Sensor Monitoring and Notification System. The data is stored in the online system and can be reviewed and exported as a data sheet or graph. Notifications can be set up through the online system to alert the user when light is present or not with the ability to only notify within time of day parameters. Perfect for light sensitive applications like museum and art gallery light monitoring

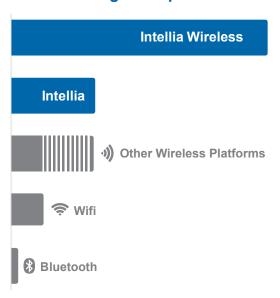
Relative sensitivity vs. wavelength Ambient Temperature: 25°C (77°F)



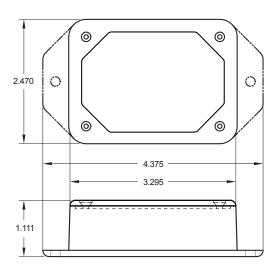
Features of Intellia Wireless Light Meter

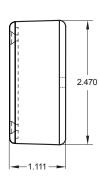
- Wireless range of 1,200+ feet through 12+ walls *
- Frequency-Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Improved power management for longer battery life ** (12+ years on AA batteries)
- Encrypt-RF® Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Onboard data memory stores up to 512 readings per sensor:
 - 10-minute heartbeats = 3.5 days
 - 2-hour heartbeats = 42 days
- Over-the-air updates (future proof)
- Free Intellia basic online wireless sensor monitoring and notification system to configure sensors, view data and set alerts via SMS text and email
- * Actual range may vary depending on environment.
- ** Battery life is determined by sensor reporting frequency and other variables. Other power options are also available.

Wireless Range Comparison









Intellia Commercial AA Wireless Light Meter Technical Specifications		
Supply voltage	2.0–3.8 VDC (3.0–3.8 VDC using power supply) *	
Current consumption	0.2 μA (sleep mode), 0.7 μA (RTC sleep), 570 μA (MCU idle), 2.5 mA (MCU active), 5.5 mA (radio RX mode), 22.6 mA (radio TX mode)	
Operating temperature range (board circuitry and batteries)	-18°C to 55°C (0°F to 130°F) using alkaline -40°C to 85°C (-40°F to 185°F) using lithium	
Optimal battery temperature range (AA)	+10°C to +50°C (+50°F to +122°F)	
Max Light Level	83,000 LUX	
Integrated memory	Up to 512 sensor messages	
Wireless range	1,200+ ft non-line-of-sight	
Security	Encrypt-RF® (256-bit key exchange and AES-128 CTR)	
Weight	3.7 ounces	
Certifications FC CE Industry Canada	900 MHz product; FCC ID: ZTL-G2SC1 and IC: 9794A-G2SC1. 868 and 433 MHz product tested and found to comply with: EN 300 220-2 V3.1.1 (2017-02), EN 300 220-2 V3.1.1 (2017-02) and EN 60950	

^{*} Hardware cannot withstand negative voltage. Please take care when connecting a power device.

Power Options

The standard version of this sensor is powered by two replaceable 1.5 V AA sized batteries (included with purchase).

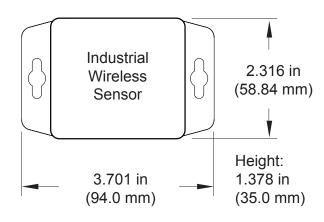
This sensor is also available with a line power option. The line powered version of this sensor has a barrel power connector allowing it to be powered by a standard 3.0–3.6 V power supply. The line powered version also uses two standard 1.5 V AA batteries as backup for uninterrupted operation in the event of line power outage.

Power options must be selected at time of purchase, as the internal hardware of the sensor must be changed to support the selected power requirements.

Example Applications

- Art gallery light metering
- Museum light metering
- Business light monitoring
- Home light monitoring
- Many additional applications





Intellia Industrial Wireless Light Meter Technical Specifications			
Supply voltage		2.0–3.8 VDC (3.0–3.8 VDC using power supply) *	
Current consumption		0.2 μ A (sleep mode), 0.7 μ A (RTC sleep), 570 μ A (MCU idle), 2.5 mA (MCU active), 5.5 mA (radio RX mode), 22.6 mA (radio TX mode)	
Operating temperature range (board circuitry and battery)		-40°C to +85°C (-40°F to +185°F)	
Included battery	Max temperature range	-40° to +85°C (-40° to +185°F)	
	Capacity	1500 mAh	
Max Light Level		83,000 LUX	
Integrated memory		Up to 512 sensor messages	
Wireless range		1,200+ ft non-line-of-sight	
Security		Encrypt-RF® (256-bit key exchange and AES-128 CTR)	
Weight		4.8 ounces	
Enclosure rating		NEMA 1, 2, 4, 4x, 12 and 13 rated, sealed and weather proof	
UL rating		UL Listed to UL508-4x specifications (File E194432)	
Certifications	F© CE Industry Canada	900 MHz product; FCC ID: ZTL-G2SC1 and IC: 9794A-G2SC1. 868 and 433 MHz product tested and found to comply with: EN 300 220-2 V3.1.1 (2017-02), EN 300 220-2 V3.1.1 (2017-02) and EN 60950	

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Example Applications

- Greenhouse and agricultural light monitoring
- Facilities lighting/energy management
- Parking garage / lot light monitoring

- Business light monitoring
- Outdoor light monitoring
- Many additional applications

Commercial Grade Sensors

Intellia commercial grade sensors are designed for applications in ordinary environments (normal room temperature, humidity and atmospheric pressure). Do not use these sensors under the following conditions as these factors can deteriorate the product characteristics and cause failures and burnout.

- Corrosive gas or deoxidizing gas: chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas, nitric oxides gas, etc.
- · Volatile or flammable gas
- · Dusty conditions
- · Low-pressure or high-pressure environments
- · Wet or excessively humid locations
- · Places with salt water, oils chemical liquids or organic solvents
- · Where there are excessively strong vibrations
- · Other places where similar hazardous conditions exist

Use these products within the specified temperature range. Higher temperature may cause deterioration of the characteristics or the material quality.

Industrial Grade Sensors | Type 1, 2, 4, 4X, 12 and 13 NEMA Rated Enclosure

Intellia Industrial sensors are enclosed in reliable, weatherproof NEMA-rated enclosures. Our NEMA-rated enclosures are constructed for both indoor or outdoor use and protect the sensor circuitry against the ingress of solid foreign objects like dust as well as the damaging effects of water (rain, sleet, snow, splashing water, and hose-directed water).

- · Safe from falling dirt
- · Protects against wind-blown dust
- Protects against rain, sleet, snow, splashing water, and hose-directed water
- · Increased level of corrosion resistance
- · Will remain undamaged by ice formation on the enclosure

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