

# Lightmeter Models CA811 & CA813



The Lightmeter Models CA811 and CA813 are portable, easy-to-use instruments which feature optical sensors that are designed to match the response of the human eye, making them ideal instruments for workspace analysis and planning. The ergonomically designed case, large display and intuitive function selection make these instruments the right choice for any application.

The Lightmeter Models CA811 and CA813 are designed for simple one-hand operation. They provide selectable lux or footcandle units for display and feature a 3½ digit backlit LCD digital display and a HOLD function. The Model CA811 offers a MAX function, while the Model CA813 offers a PEAK function and a broader light response.

## Features

- Easy one-hand operation
- Designed to measure a wide range of lighting types
- Removable sensor for remote reading
- Measures in footcandles (fc) or lux
- Cosine corrected
- HOLD function
- PEAK function (Model CA813)
- MAX function (Model CA811)
- CIE photopic (human eye) response
- 2000-count backlit LCD
- Lightweight and compact
- Removable protective sensor cover
- Includes rugged, shockproof, protective, dirt resistant holster

## Applications

- Testing for OSHA compliance in workplace, cleanroom and industrial settings
- Ambient testing for light-sensitive displays and archives in museums and art galleries

# Specifications

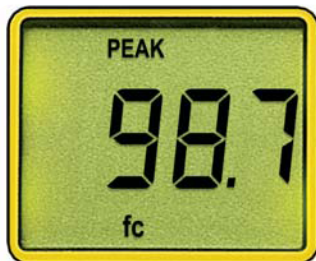
MODEL	CA811	CA813*
<b>MEASUREMENTS</b>		
<b>Range</b>	20fc, 200fc, 2000fc, 20kfc 20lux, 200lux, 2000lux, 20klux,	20fc, 200fc, 2000fc, 20kfc 20lux, 200lux, 2000lux, 20klux, 200klux
<b>Display Resolution</b>	0.01fc or 0.01lux	0.01fc or 0.01lux
<b>Sensor</b>	Silicon photodiode	Silicon photodiode
<b>Spectral Response</b>	CIE Photopic Curve	CIE Photopic Curve
<b>Accuracy for 2856K Light Source</b>	± 3% ± 10cts	± 3% ± 10cts
<b>Accuracy for Common Light Sources</b>	± 18% ± 2cts	± 11% ± 2cts
<b>Display Refresh Rate</b>	2.5 times per second, nominal	
<b>MECHANICAL</b>		
<b>Display</b>	3½ digit liquid crystal display (LCD), 2000-count	
<b>Operating Temperature</b>	32° to 122°F (0° to 50°C), < 80% RH	
<b>Storage Temperature</b>	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery	
<b>Polarity</b>	Automatic	
<b>Power Source</b>	9V Alkaline battery	
<b>Low Battery Indication</b>	[- +] is displayed when battery voltage is low	
<b>Dimensions</b>	6.81 x 2.38 x 1.5" (173 x 60.5 x 38mm)	
<b>Weight</b>	Approx. 7.55 oz (214g) including battery	Approx. 7.9 oz (224g) including battery

\* Note: Model CA813 offers higher sensitivity (200klux) and has a better spectral response to common light sources.

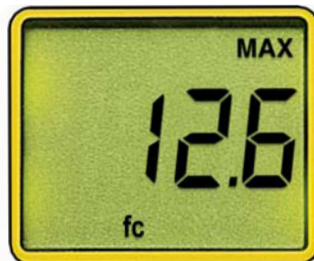


The Lightmeters are lightweight and compact. Their ergonomic design allows for easy one-hand operation.

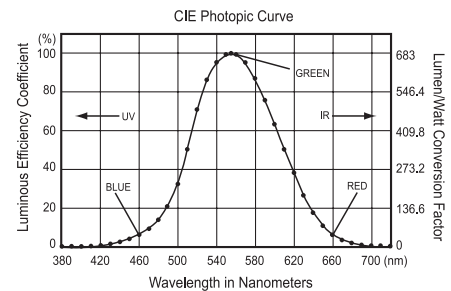
1. Photodiode sensor
2. Low battery indicator
3. RANGE selector
4. PEAK button (Model CA813)  
MAX button (Model CA811)
5. Power/mode selector
6. Removable light sensor
7. 3½ digit display
8. HOLD button



When the PEAK button is pressed, the Model CA813 displays the highest single sample measured every 50ms.



When the MAX button is pressed, the Model CA811 holds the highest value displayed every 400ms.



## ORDERING INFORMATION

## CATALOG NO.

Lightmeter Model CA811 ..... Cat. #2121.20

Lightmeter Model CA813 ..... Cat. #2121.21

Includes 9V Alkaline battery, rugged, shockproof, protective, dirt resistant gray holster and user manual

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