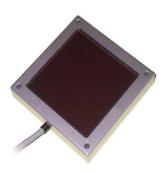
Light-meter: technical data



General Plug'n'Play - weather-proof and ready for outdoor mounting Voltage supply Current Housing Lenght x width x height Weight Measurement range Noise Recording rate Detection limit Operating temperature Storage temperature Maintainance

5V DC (via USB) max 10mA special glas, Aluminum anodised 92 x 92 x 15 mm 370 g (270 g sensor + 100 g USB-cable) 500 mikro-Lux to 200 000 Lux 20 mikro-Lux at 1 mLux adjustable from 1 per s to 1 per hour 50 - 100 mikro-Lux -25°C to 80°C -30°C to 110°C maintainaince free

Installation

The sensor is weather-proof; Four holes with 4.2mm diameter; Mount on isolating material (e.g. Wood); Computer within about 20m of sensor.

System Requirements

- 1. Computer with operating system, one of: Windows XP/NT/2000, or 0
 - Linux with Virtualbox2 + Windows 0 virtual machine:
- 2. USB port;
- 3. 18 MB disk-space for lightmeter software.

Typical data-rates

1.5 MB/month for 1 measurement per minute 350 kB/week for 1 measurement per minute 3 MB/day for 1 measurement per second

Software-download and further information:

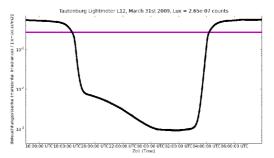
http://lightmeter.astronomy2009.at Login: Guest IYA2009

Requests: lightmeter@astronomy2009.at

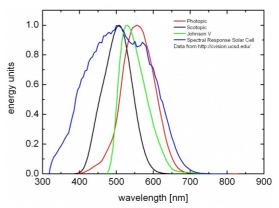
Technical changes may occur, version of May 18th, 2009

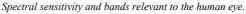


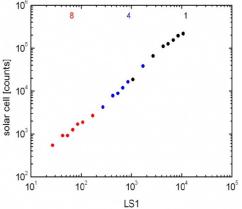
Lightmeter and USB-cable compared to 1 Euro coin.



Lightmeter at Tautenburg. Photometric night with half-moon before local midnight and decreasing to one mlx later. Note the nonlinear daylight part above the full-moon brightness (magenta horizontal line).







Sensor linearity checked by calibrated and varied light source.