



HT309

Rel. 1.01 of 09/02/18

Digital Luxmeter with LED illuminance measurements

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1. TECHNICAL SPECIFICATIONS

Accuracy is indicated as [% rdg]. It is referred to the following reference conditions: 25°C with <80%RH. The luxmeter is calibrated with standard incandescent lamp at color temperature 2856 K and corrected LED in white, yellow, green, blue, red LED light spectrum

Illuminance measurements (Autorange)

Range (Lux)	40	400	4k	40k	400k
Resolution (Lux)	0.01	0.1	1	10	100
Accuracy	± (3% rdg)				

Range (Fc)	40	400	4k	40k
Resolution (Fc)	0.01	0.1	1	10
Accuracy	± (3% rdg)			

- 1Fc (Footcandle)=10.76Lux, 1Klux=1000Lux, 1Kfc=1000fc.
- For temperature/color different form reference, accuracy its 6%rdg

Luminous intensity measurements (Autorange)

Range (Cd)	depend on Lux(Fc) measurements
Range distance	0.01 ÷ 30.47m (0.01 ÷ 99.99ft)

- Luminous intensity (Cd) = Illumination (Lx/Fc) x distance (m²/ft²)

Specifications

Spectral response: CIE Photopic. (CIE human eye response curve).
 Accuracy on angular deviation from cosine curve: 30° (± 2%), 60° (± 6%), 80° (± 25%)

Light source specifications

LED colour	White	Red	Yellow	Green	Blue	Purple
Light source factor	0.99	0.516	0.815	1.216	1.475	1.148

Spectral sensitivity

The photodiode with filters makes the spectral sensitivity almost meet the CIE photo-optic curve $V(\lambda)$ as shown below.

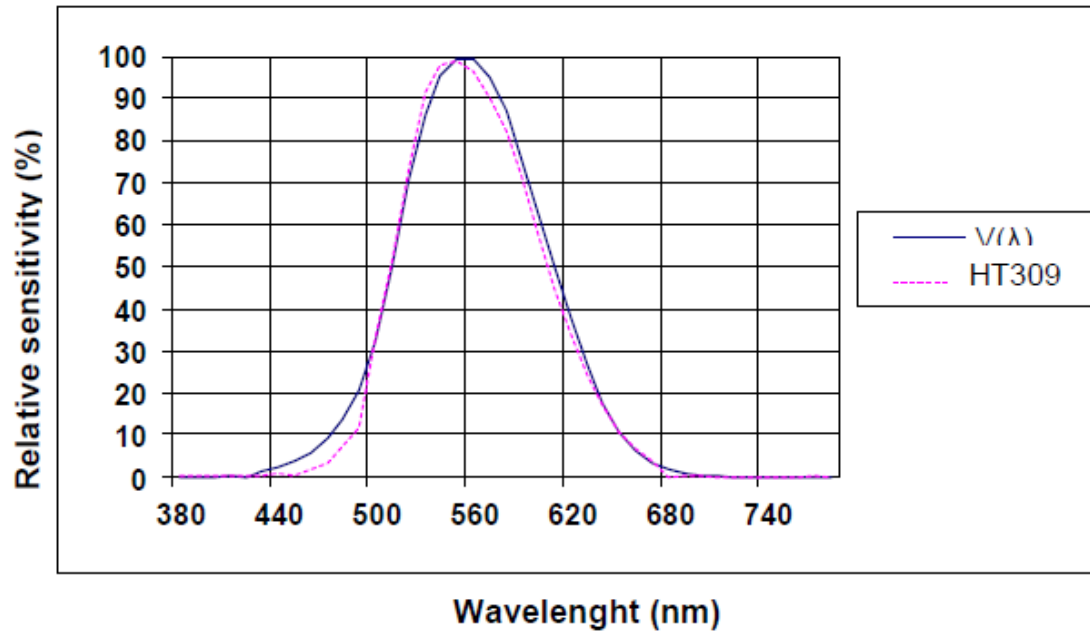


Photo detector

The photo detector is a silicon photodiode with spectral response filter.

2. GENERAL SPECIFICATIONS


Features

- Data HOLD
- MAX/MIN/AVG
- Digital Zero adjustment
- Autorange
- Internal memory: max 99 locations
- Recall and Clear memory
- Auto Power OFF

Mechanical characteristics

Meter dimensions (L x W x H):	190 x 65 x 45mm
Sensor dimension (L x W x H) :	110 x 60 x 35mm
Length of sensor cable:	1.5m
Weight (including battery):	255g
Mechanical protection:	IP40

Supply

Battery type:	1x9V type IEC NEDA 1604 IEC 6F22
Low battery indication:	"  " symbol displayed
Battery life:	ca 60h (backlight ON), ca 180h (backlight OFF)
Auto Power OFF:	after 5min of idleness

Display

Characteristics:	LCD, 6 digit, 4000 points, with "OL" indication and backlight
Sample rate:	2.5 times/sec

Standards considered

Standard guidelines:	JIS C 1609:1993 and CNS 5119 general Class A specification
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ENVIRONMENTAL CONDITIONS

Climatic conditions

Reference temperature:	25°C
Operating temperature:	-5°C ÷ 40°C
Operating humidity:	<80%RH
Storage temperature:	-10°C ÷ 60°C
Storage humidity:	<70%RH
Max altitude of use:	2000m
Pollution degree:	2

**This instrument satisfies the requirements of EMC Directive 2014/30/EU
This instrument satisfies the requirements of European Directive 2011/65/EU (RoHS)
and 2012/19/EU (WEEE)**