

HT307 - HT309 - HT204

LUXMETERS AND POTABLE SOLAR POWER METERS

HT307 and HT309 are digital luxmeters to measure lighting up to 20kLux (HT307) and 400kLux (HT309) through silicon photodiode. HT309 permits also lighting measurement of LED sources with several colours setting the corresponding correction factors. HT204 is a digital solar meter to measure solar radiation up to 2000W/m² very useful in industrial photovoltaic installations for the evaluation of solar power incidence on panels.

FUNCTIONS	HT307	HT309
Measurement range (Lux/Fc)	0.01 ÷ 200kLux 0.01 ÷ 20kFc	0.01 ÷ 400kLux 0.01 ÷ 40kFc
Lighting measurement (Cd)		•
Lighting measurement of LED sources		•
Accuracy	±3%rdg	
Zeroing	Manual with trimmer	Digital
Autorange		•
Spectral response correction	•	•
Data HOLD, MAX/MIN	•	•(even AVG)
Internal memory		•
DC analogical output	•	
Auto Power OFF		•
Reference standards	Class A JIS C 1609:1993	Class A JIS C 1609:1993 + CNS 5119

ACCESSORIES HT307-HT309

Standard
Jack for DC analogical output connection (HT307 only)
Trimmer adjustment screwdriver (HT307 only)
Carrying bag
Test certificate
Battery
User manual

ACCESSORIES HT204

Standard
Carrying bag
CE conformity declaration
Battery
User manual

FUNCTIONS	HT204
Measurement range	1 ÷ 1999 W/m ² 1 ÷ 634 BTU/(ft ² * h)
Resolution	1W/m ² 1BTU/(ft ² *h)
Accuracy	10 W/m ² or 5% (whichever is the greater) 1 BTU/(ft ² * h) or 5% (whichever is the greater)
Unit of measurement	W/m ² and BTU/(ft ² *h)
Zeroing	Manual with trimmer
Unit of measurement	W/m ² and BTU/(ft ² * h)
Manual range	•
Data HOLD, MAX/MIN	•





1. TECHNICAL SPECIFICATIONS

Accuracy is referred to the herewith conditions:: 23°C ± 5°C ; < 70%HR

SOLAR RADIATION [W/m²]

Range [W/m ²]	Resolution [W/m ²]	Accuracy	Accuracy for temperature
1 ÷ 1999	1	> between ± 10 W/m ² and ±5%rdg	± 0.38 W/m ² / °C from 25°C

SOLAR RADIATION [BTU/(ft²*h)]

Range [BTU/(ft ² *h)]	Resolution [BTU/(ft ² *h)]	Accuracy	Accuracy for temperature
1 ÷ 634	1	> between ± 3 BTU/(ft ² *h) and ±5%rdg	± 0.12 BTU/(ft ² *h)/°C from 25°C

2. GENERAL SPECIFICATIONS

Mechanical specification

Dimensions: 172(L) x 60(W) x 38(H)mm
 Weight (included battery): ca 150g

Power supply

Power supply: 1x9V battery type 6LR61
 Low battery indication: "E" symbol when voltage battery level is too low
 Battery life: ca 100 hours (alkaline)

Display

Features: LCD, 3 ½ digits with "OL" indication
 Sample rate: 4 times/s

ENVIRONMENT

Environmental conditions

Reference temperature: 23° ± 5°C
 Working temperature: 5 ÷ 40 °C
 Working humidity: <80%HR
 Storage temperature: -10 ÷ 60 °C
 Storage humidity: <70%HR
 Max altitude: 2000m

**This meter is compliance to the prescription of the EMC standard:
 EN61326 (1997) + A1 (1998) + A2 (2001)**