

HIOKI

LUX HiTESTER 3423

Field measuring instruments



Digital illuminance meter with a maximum display of 199,900 lx



Features

- Capable of a broad range of measurements, from low light levels to strong light levels.
- Permits remote measurement with the sensor separated from the main unit.
- Equipped with display hold and backlight features.
- Simple operation.
- Includes analog output that can be used to record results.
- Analog output includes zero adjustment function.

CE



ISO 9001
JMI-0216



ISO14001
JQA-E-90091



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Measures a broad range of luminosities with simple operation

The 3423 is an easy-to-operate hand-held unit that can measure a broad range of luminosities, from the low light provided by induction lighting up to a maximum intensity of 199,900 lx. This device is suited for a wide range of applications involving illumination equipment, lighting work, and facility management.

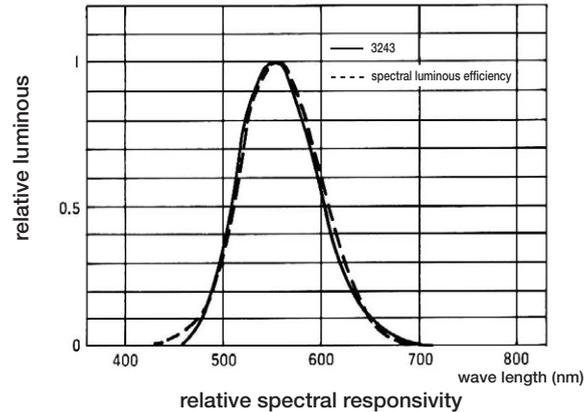
Using the display hold and backlight features, it is easy to take readings even in dark locations. Because the backlighting turns on only after the display is held, the backlighting has no effect on the measurements.



When zero adjustment is performed for the display, it is performed for the analog outputs simultaneously.

By using the connecting cable 9436 (with case), it is possible to take measurements with the sensor separated from the main unit. (The connecting cable 9436 is sold separately.)

Human perception of brightness differs according to the wavelength of the light and also varies among individuals. As a result, the International Commission on Illumination (CIE) has established comparative standards for luminosity. Although ideally relative spectral response would be equal to these standards, the 3423 has excellent characteristics that are close to the comparative standards for luminosity.



Specifications

Display	LCD 3 1/2 Maximum: "1999" However, in the 20,000 lx range, the maximum is "19,990", and in the 200,000 lx range, the maximum is "199,900". Battery low (B) display indicator EL backlight function
Display operation	20,200, and 2000 lx ranges : 1-count step 20,000 lx range : 10-count steps 200,000 lx range : 100-count steps
Measuring ranges	20/200/2,000/20,000/200,000 lx Auto range / manual switching
Overflow indication	"OF" is displayed
Accuracy	± 4% rdg., ± 1 dgt. (23°C ± 5°C)
Angled incident light characteristics (deviation from cosine characteristics)	Angle of 10°: ±1% 30°: ±2% 50°: ±6% 60°: ±7% 80°: ±25%
Response characteristics in ultraviolet and infrared spectrums	Response to ultraviolet and infrared radiation: less than 1%
Fatigue characteristics	Change in value one minute and ten minutes after light strikes sensor: ±1%
Response time	Auto range : 5 seconds or less Manual range : 2 seconds or less

Temperature characteristics	Deviation from value measured at 23°C between - 10°C and 40°C: ±3%
Humidity characteristics	Deviation from value measured in an environment with a temperature and humidity of 23°C and 45% to 75% RH when unit is left in an 85% to 95% RH environment for three hours and then is returned to the original environment: ±3%
Characteristics regarding intermittent light	Deviation in value when subjected to intermittent light for 1/2 cycle at a frequency of 100 Hz or 120 Hz : ±2%
Relative spectral response characteristics in the visible spectrum	Deviation from spectral luminous efficiency : 8% or less
Receptor element	Silicon photodiode
Standards applying	Safety: EN 61010 Pollution degree 2 EMC: EN 61326
Operating temperature and humidity range	-10°C to 40°C, 80% RH or less, with no condensation
Analog output	DC 200m V f.s. ± 2.5% f.s. (versus the display value)
Power supply	Rated supply voltage 1.5 VDC×2, two R6P manganese batteries or two LR6 alkaline batteries
Continuous operating time	Approx. 25 hours
External dimension, mass	74mm (W) × 170mm (H) × 30mm (D) (excluding protruding parts), approximately 310 g (including batteries)
Accessories	Sensor cap, Portable case 9376

Options
Connecting cable 9436 2m (with case)
Output cord 9094

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

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