

HLMS-200P Handheld Light Measurement System

A rugged, portable photometric instrument for measuring luminous flux



VALUE

- NIST traceable calibration
- Programmable spectral correction
- Auto ranging
- Auto zero
- Ratio
- Display/Hold function
- Automatic switch off
- 4-Digit LCD display
- Low battery indicator
- Optional bench mount

MEASURE

- LEDs
- Small lamps
- Fiber illuminators
- Quantities

Accurate

The HLMS-200P Handheld Light Measurement System is an easy-to-use, precision photometric instrument designed for use in the field or laboratory, and on the production floor. The instrument measures luminous flux from sources such as LEDs, small lamps, and fiber illuminators.

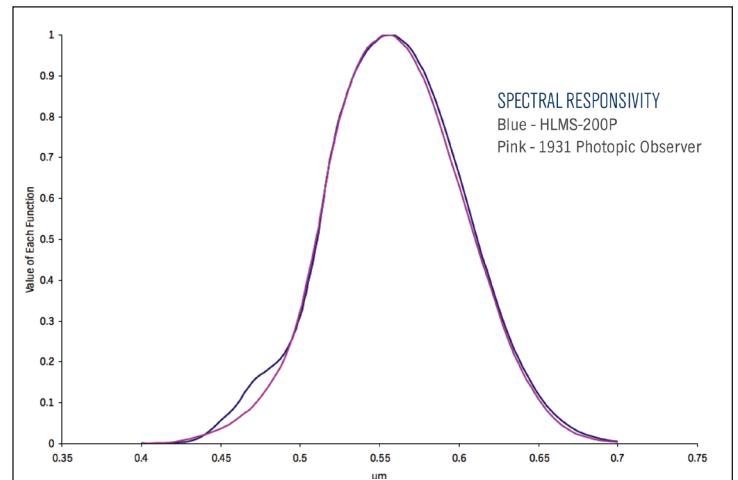
The instrument's photopically filtered silicon detector provides maximum sensitivity at low light levels. Sensitivity over five full decades provides the ability to measure from 0.05 to 7,000 lumens. A calibration certificate, with a calibration traceable to National Institute of Standards and Technology (NIST) is included.

Portable

The HLMS-200P consists of a compact, lightweight, handle-grip enclosure with built-in microprocessor that performs several functions at the touch of a button. The instrument features a 2 inch diameter integrating sphere that collects the total light entering the sphere measurement port. The sphere interior is fabricated from Spectralon® reflectance material, a Lambertian (perfectly diffuse) reflectance material.

Easy to use

Data is instantly displayed on an easy to read 4-digit front panel LCD display. Push button controls are easily accessible and clearly labeled on the front panel. The instrument is powered by a 9V battery and is calibrated to display lumens.



Spectral Responsivity

Specifications

Model Number	Order Number
HLMS-200P, 1/4-20 mount	AA-00775-000
HLMS-200P, M6 mount	AA-00775-001
Measurement:	Luminous Flux
Measurement Units:	Lumens
Measurement Range:	0.05 to 7,000 lumens
Resolution:	0.001 to 9.999 lumens 10.00 to 99.99 lumens 100.0 to 999.9 lumens 1,000 to 7,000 lumens

Product Properties and Performance

Display:	0.05 to 0.1 ±7% 0.1 to 1,000 ± 1% 1000 to 7,000 ± 3%
f1' Photopic Correction:	4%
Response Uniformity:	> 98% over 90° full angle
U,UV Response:	0.1%
R, IR Response:	0.1%
F3 Non Linearity:	0.5%
F4 Readout Error:	0.1%
F5 Fatigue:	0.5%
Est. Luminous Flux: (Illuminant A)	0.01 to 0.1 ± 7.6% 0.1 to 1000 ±3.1% 1,000 to 7,000 ±4.2%
Range Selection:	Auto Range
Sphere Diameter:	2.0 inch (5.08 cm)
Entrance Port Diameter:	0.5 inch (1.27 cm)
Sphere Interior:	Spectralon®
Detector: Photopic;	Filtered Silicon
Readout:	4-digit, 2 x 8 LCD
Temperature Range:	0° C to 50° C
Size:	3.5 W x 3 H x 8.5 L inches (8.9 W x 7.6 H x 21.6 L cm)
Weight:	1.25 lbs. (0.57 kg.)
Calibration:	NIST traceable
Compliance:	CE
Mounting Boss:	1/4-20 or M6 (specify when ordering)

Optional Accessories

HLMS Adaptor Set PAS-H-T	AS-02527-000
1/4-20 Mounting Post	AS-02504-032
M6 Mounting Post	AS-02506-024
Post Holder	AS-02505-016
Carrying Case	XP-00343-000