

HLMS-200P Handheld Light Measurement System

A rugged, portable photometric instrument for measuring luminous flux



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, light-weight, 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.

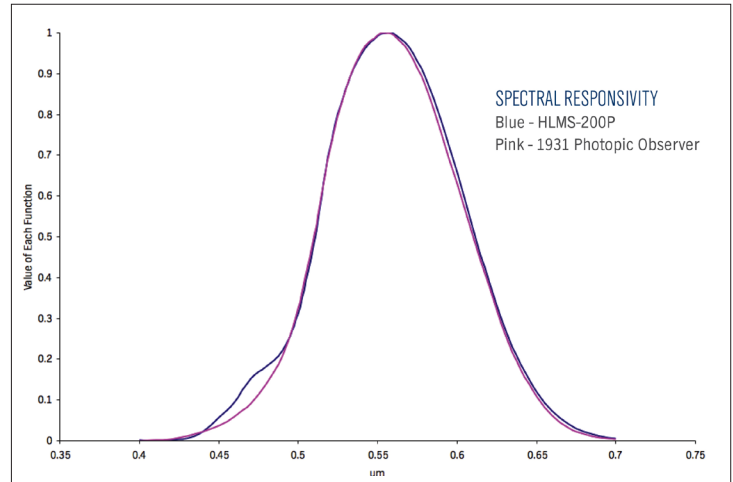
Value

- 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

Spectral Responsivity



Specifications

Model Number

HLMS-200P, 1/4-20 mount
HLMS-200P, M6 mount

Measurement:

Measurement Units:

Measurement Range:

Resolution:

Order Number

AA-00775-000

AA-00775-001

Luminous Flux

Lumens

0.05 to 7,000 lumens

0.001 to 9.999 lumens

10.00 to 99.99 lumens

100.0 to 999.9 lumens

1,000 to 7,000 lumens

Optional Accessories

HLMS Adaptor Set PAS-H-T

1/4-20 Mounting Post

M6 Mounting Post

Post Holder

Carrying Case

AS-02527-000

AS-02504-032

AS-02506-024

AS-02505-016

XP-00343-000

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:

0.01 to 0.1 ± 7.6%

(Illuminant A)

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)