

PHOTOMETRIC AND RADIOMETRIC PROBES



LIGHTING LEVEL

**LP 471-PHOT**

Item No. 700064

Probe for photo- and radiometer HD2302, illuminance

**APPLICATION:**

Measurement of illuminance at workplaces / stations, traffic and escape routes

**TECHNICAL SPECIFICATIONS:**

Measuring range (lux):	0,10..199,99 ..1999,9 ..19999 ..1999,99 · 10 <sup>3</sup>
Resolution (lux):	0,01 0,1 1 0,01 · 10 <sup>3</sup>
Spectral range:	in accordance with a photopic standard curve V (λ)
α (temperature coefficient) f <sub>6</sub> (T):	<0,05 % K
Calibration uncertainty:	<4 %
f <sub>1</sub> (in agreement with photopic sensitivity V (λ)):	<6 %
f <sub>2</sub> (sensitivity according to cosine law):	<3 %
f <sub>3</sub> (linearity):	<1 %
f <sub>4</sub> (read error of the device):	<0,5 %
f <sub>5</sub> (fatigue):	<0,5 %
Class:	B
Working temperature:	0 .. + 50 °C



LUMINOUS DENSITY

**LP 471-LUM 2**

Item No. 700065

Probe for photo- and radiometer HD2302, luminance

**GENERAL:**

Spectral sensitivity according to the photopic curve, optical angle 2°. Measuring range: 1.0 cd/m<sup>2</sup>..2,000 · 10<sup>3</sup> cd/m<sup>2</sup>.

**APPLICATION:**

The sensor measures the luminance like a human eye, e.g. Monitors, lamps, etc. diaphanoscope, reading from X-ray plates. For monitoring the lighting conditions at PC workstations and reflections from white surfaces.

**TECHNICAL SPECIFICATIONS:**

Measuring range (cd/m <sup>2</sup> ):	1,0..1999,9 ..19999 ..199,99 · 10 <sup>3</sup> ..1999,9 · 10 <sup>3</sup>
Resolution (cd/m <sup>2</sup> ):	0,1 1 0,01 · 10 <sup>3</sup> 0,1 · 10 <sup>3</sup>
Optical angle:	2°
Spectral range:	in accordance with a photopic standard curve V (λ)
α (temperature coefficient) f <sub>6</sub> (T):	<0,05 % K
Calibration uncertainty:	<5 %
f <sub>1</sub> (in agreement with photopic sensitivity V (λ)):	<8 %
f <sub>3</sub> (linearity):	<1 %
f <sub>4</sub> (read error of the device):	<0,5 %
f <sub>5</sub> (fatigue):	<0,5 %
Class:	
Drift after 1 year:	<1 %
Working temperature:	0 .. + 50 °C
Reference standards:	CIE n.69 - UNI 11142



PHOTON FLOW

**HIGHLIGHTS:**

- Photosynthetic activity, radiation measurement (PAR), langley radiation measurement

**LP 471-PAR**

Item No. 700066

Probe for photo- and radiometer HD2302, quantum radiometric PHOTON FLOW in the chlorophyll PAR range

**GENERAL:**

For measuring the flow of photons in the chlorophyll range PAR (photosynthetically active radiation 400..700 nm), μmol m<sup>-2</sup>s<sup>-1</sup> measurement, diffuser for cosine correction. measuring range 0.10 μmol m<sup>-2</sup>s<sup>-1</sup>..10 · 10<sup>3</sup> μmol m<sup>-2</sup>s<sup>-1</sup>

**APPLICATION:**

Plants, agriculture, greenhouses

**TECHNICAL SPECIFICATIONS:**

Measuring range (μmol m <sup>-2</sup> s <sup>-1</sup> ):	0,10..199,99 200,0..1999,9 2000..10000
Resolution (μmol m <sup>-2</sup> s <sup>-1</sup> ):	0,01 0,1 1
Spectral range:	400..700 nm
Calibration uncertainty:	<5 %
f <sub>2</sub> (sensitivity according to cosine law):	<6 %
f <sub>3</sub> (linearity):	<1 %
f <sub>4</sub> (read error of the device):	± 1 digit
f <sub>5</sub> (fatigue):	<0,5 %
Drift after 1 year:	<1 %
Working temperature:	0 .. + 50 °C