

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 ³
Resolution (lux):	0,01 0,1 1 0,01 · 10 ³
Spectral range:	in accordance with a photopic standard curve V (λ)
α (temperature coefficient) f ₆ (T):	<0,05 % K
Calibration uncertainty:	<4 %
f ₁ (in agreement with photopic sensitivity V (λ)):	<6 %
f ₂ (sensitivity according to cosine law):	<3 %
f ₃ (linearity):	<1 %
f ₄ (read error of the device):	<0,5 %
f ₅ (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/m²..2,000 · 10³ cd/m².

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 ²):	1,0..1999,9 ..19999 ..199,99 · 10 ³ ..1999,9 · 10 ³
Resolution (cd/m ²):	0,1 1 0,01 · 10 ³ 0,1 · 10 ³
Optical angle:	2°
Spectral range:	in accordance with a photopic standard curve V (λ)
α (temperature coefficient) f ₆ (T):	<0,05 % K
Calibration uncertainty:	<5 %
f ₁ (in agreement with photopic sensitivity V (λ)):	<8 %
f ₃ (linearity):	<1 %
f ₄ (read error of the device):	<0,5 %
f ₅ (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⁻²s⁻¹ measurement, diffuser for cosine correction. measuring range 0.10 μmol m⁻²s⁻¹..10 · 10³ μmol m⁻²s⁻¹

APPLICATION:

Plants, agriculture, greenhouses

TECHNICAL SPECIFICATIONS:

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