Member of GHM GROUP

HD2302.0

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PHOTO-RADIOMETER

The **HD2302.0** is a portable instrument with a large LCD display. It measures **illuminance, luminance, PAR and irradiance (across VIS-NIR, UVA, UVB and UVC spectral regions or measurement of irradiance effective according to the UV action curve).**

The probes are equipped with the SICRAM automatic detection module: in addition to detection, the unit of measurement selection is also automatic. The factory calibration data are already memorized inside the probes.

The Max, **Min** and **Avg** function calculates the maximum, minimum or average values.
Other functions include: the relative measurement REL, the HOLD function and the automatic turning off that can also be excluded.

The instrument has IP67 protection degree.

INSTRUMENT TECHNICAL CHARACTERISTICS	
Measured quantities	lux - fcd - W/m² - µW/cm² µmol/(m² s)- cd/m² - µW/lumen
Power Supply	
Batteries	3 1.5V type AA batteries
Autonomy	200 hours with 1800 mAh alkaline batteries
Power absorbed with instrument off	20 µA
Connections	
Input for probes	8-pole male DIN45326 connector
Operating conditions	
Working temperature	-5…50 °C
Storage temperature	-25…65 °C
Working relative humidity	0…90% RH without condensation
Protection degree	IP67
Instrument	
Dimensions (Length x Width x Height)	140 x 88 x 38 mm
Weight	160 g (complete with batteries)
Material	ABS
Display	2x4½ digits plus symbols Visible area: 52x42 mm

ORDERING CODES

HD2302.0: The kit is supplied with: instrument HD2302.0, 3 1.5V alkaline batteries, operating manual, case. Probes have to be ordered separately.

Probes with SICRAM module - for technical specifications of the probes, see following pages.

LP471PHOT: Photometric probe for ILLUMINANCE measurement.
LP471LUM2: Photometric probe for LUMINANCE measurement.
LP471PAR: Quantum radiometric probe for the measurement of the PHOTONS FLOW across the chlorophyll range PAR (400 nm…700 nm).
LP471PAR02: Quantum-radiometric probe for measuring the PHOTONS FLOW in the chlorophyll field PAR (400 nm…700 nm). Special filter that optimizes the spectral response.
LP471RAD: Radiometric probe for IRRADIANCE measurement in the 400 nm…1050 nm spectral range.
LP471UVA: Radiometric probe for measuring the IRRADIANCE in the UVA spectral range 315 nm…400 nm.
LP471UVB: Radiometric probe for measuring the IRRADIANCE in the UVB spectral range 280 nm…315 nm.
LP471UVC: Radiometric probe for measuring the IRRADIANCE in the UVC spectral range 220 nm…280 nm.
LP471UVBC: Radiometric probe for measuring the IRRADIANCE in the UV-BC spectral range 210 nm…355 nm.
LP471BLUE: Radiometric probe for EFFECTIVE IRRADIANCE measurement in the spectral range of Blue light.
LP471P-A: Combined probe for measuring the ILLUMINANCE (lux) and the IRRADIANCE (W/m²) in the UVA spectral range (315…400 nm).
LP471A-UVeff: Combined probe for measuring the TOTAL EFFECTIVE IRRADIANCE (W/m²) weighted according to the UV action curve.
LP471SILICON-PYRA: Pyranometer with silicon photodiode to measure the GLOBAL SOLAR IRRADIANCE, diffuser for cosine correction. Spectral range: 400…1100 nm.
LP471PYRAxxx.5: Probe consisting of Spectrally Flat Class C or B or A pyranometer and a 5 m long cable complete with SICRAM module.
LPBL: Base with levelling device (not suitable for LP471LUM2 and LP471PYRA… probes).
LPBL3: Adjustable wall support for Ø 30 mm photometric and radiometric probes.