The Ultimate Technology for Small-scale PV Monitoring

LPPYRA-Lite

SMALL, SIMPLE AND COST-EFFECTIVE

All the features of a silicon pyranometer combined with the **accuracy of a thermopile** one

ACCORDING TO THE STANDARD

Spectrally Flat Class C according to ISO 9060:2018 WMO recommendations fully compliant

COMPACT & STREAMLINED DESIGN

Specifically designed for **direct tilted installation** on PV panel plane

EASY TO SET UP AND QUICK TO INSTALL

Fixing adapter to **ease installation**.

In case of horizontal mounting, available adapter with levelling device

OUTPUT ACCORDING TO YOUR NEEDS

Available in 2 versions: passive or 2-wire (current loop) 4...20 mA

The most compact and light solution for ordinary solar efficiency monitoring of PV system

With the LPPYRA-Lite, Delta OHM is expanding its pyranometer range with a product that perfectly represents the entry level of solar radiation monitoring.

LPPYRA-Lite is a very **small and light** pyranometer based on an accurate **thermopile sensor** for ordinary monitoring of small PV systems. Its exceptionally **compact dimensions** ease the installation and the integration into any application.

At the same time, being classified as a **Class C Spectrally Flat** according to ISO 9060:2018, it guarantees the accuracy, reliability and precision of the measurements, in compliance with the reference standards. Each sensor is characterised by its own calibration factor, indicated on the body of the pyranometer.

Specifically designed for **direct tilted installation** on PV panel plane, it does not require any levelling device, but for installations where horizontal positioning is needed, an optional fixing base with integrated levelling device is also available.





Main Applications

Small PV power plant monitoring

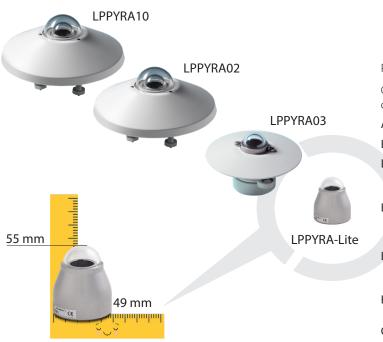
General solar radiation measurements



Technical Specifications

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Sensor	Thermopile		
Typical Sensitivity	5…15 μV/Wm ⁻² or normalized 7 μV/Wm ⁻²		
Measuring range	02000 W/m ²		
Viewing angle	2π sr		
Spectral range (50%)	3002800 nm		
Output	LPPYRA-Lite: μV/Wm $^{-2}$ (impedance 3345 Ω) LPPYRA-LiteAC: 2-wire (current loop) 420 mA (R _L \leq 500 Ω)		
Power supply	LPPYRA-Lite: passive version, no power required LPPYRA-LiteAC: 1028 Vdc		
Consumption	LPPYRA-Lite: passive version, no power required LPPYRA-LiteAC: equal to output signal (420 mA)		
Connection	4-pole M12 connector		
Weight	150 g approx.		
Operating conditions	-4080 °C / 0100 %RH		
Protection Degree	IP 67		
MTBF	> 10 years		

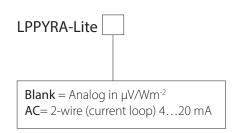
Dimensions



ISO 9060:2018 Technical Specifications

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Classification		Spectrally Flat Class C	
Response time (95%)		< 25 s	
Zero offset	a) response to a 200 W/m² thermal radiation	< ±20 W/m²	
	b) response to a 5 K/h change in ambiente temperature	< ±6 W/m²	
	c) total zero off-set including the effects a), b) and other sources	< ±30 W/m²	
Long-term instability (1 year)		< ±2 %	
Non-linearity		< ±2 %	
Response according to the cosine law		< ±25 W/m²	
Spectral error		< ±2 %	
Temperature response (-10+40 °C)		< 3 %	
Tilt response		< ±3 %	

Ordering Codes



Pyranometers are supplied with female M12 free connector.

Cable, fixing accessories/adapters and Calibration Report have to be ordered separately.

A	:
Accesso	ries

TEL: 031-776 2525

LPS40/32 Fixing adapter from 40 to 32 mm holes centre distance.

LPS40/32BL Fixing adapter from 40 to 32 mm holes centre distance. With integrated levelling device. Accuracy of levelling device < 0.2°.

LPS3 Fixing bracket for the pyranometer, suitable for $\emptyset 40...50$

mm mast. Installation on horizontal or vertical mast.

LPS40/32... adapter is required.

LPRING04 Adjustable holder for mounting the pyranometer in an inclined position on Ø40 mm mast with internal thread.

LPS40/32... adapter is required.

Clamping for mast Ø40 mm to install the pyranometer HD2003.77/40

on a transverse mast. LPS40/32... adapter is required.

Cable with 4-pole M12 connector on one end, open CPM12AA4.xx wires on the other end. Available length: 2, 5 or 10 m).

> 124, SK 1013 Web: www.dhtc.co.kr

E-mail: dhtc@dhtc.co.kr

