



LP PYRA 08 - LP PYRA 08AC - LP PYRA 08AV PIRANOMETERS

Delta Ohm manufactures, according to ISO 9060 and the recommendations of the WMO, the range of 2nd class pyranometers **LP PYRA 08**. These tools are robust, reliable, provided to withstand the adverse climatic conditions are suitable for installation in the field.

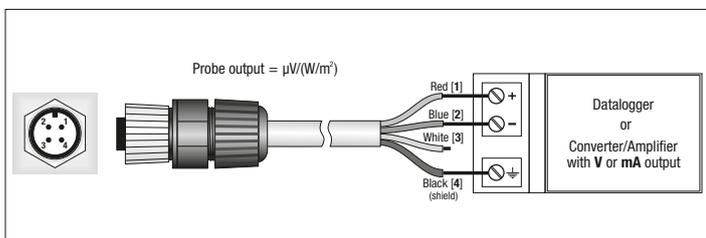
The pyranometer **LP PYRA 08**, measure the radiation on a flat surface (Watt/m²). The radiation measured is the sum of direct solar irradiance and diffuse irradiance (global radiation).

The sensors with mV output does not need power and have a typical sensitivity of 15 mV / (kW m⁻²). The pyranometer are also available with the output signal amplified and converted into a current signal 4 ... 20mA or voltage 0 ... 1 Vdc, 0 ... 5 V or 0 ... 10Vdc.

Each pyranometer is calibrated individually with reference to the WWR (World Radiometric Reference in Davos CH) and accompanied by calibration report.

LP PYRA 08 thanks to a new sensor used has a response time of less than 8 seconds and is used when it is necessary to record changes in short and very short-term irradiation.

LP PYRA 08 - LP PYRA 08BL CONNECTION DIAGRAMMS



Technical specifications	LP PYRA 08
Typical sensitivity	15 mV (kW/m ²)
Impedance	5Ω
Measuring range	2000 W/m ²
Viewing field	2πsr
Spectral field	305 nm – 2800 nm (50%) (Figure 1)
Working temperature	-40 °C – 80 °C

Specifications according to ISO 9060

Response time (95%)	<8 sec
Zero Off-set	25 W/m ²
a) Response to a thermal radiation (200 W m ⁻²)	< ±6 W/m ²
b) Response to a change of temperature 5K/h	< ±2.5 %
Long-term instability (1 year)	< ±2 %
Non linearity	< ±22 W/m ²
Response according to cosine	< ±7 W/m ²
Spectral selectivity	<8%
Tilt response	< ±4 %

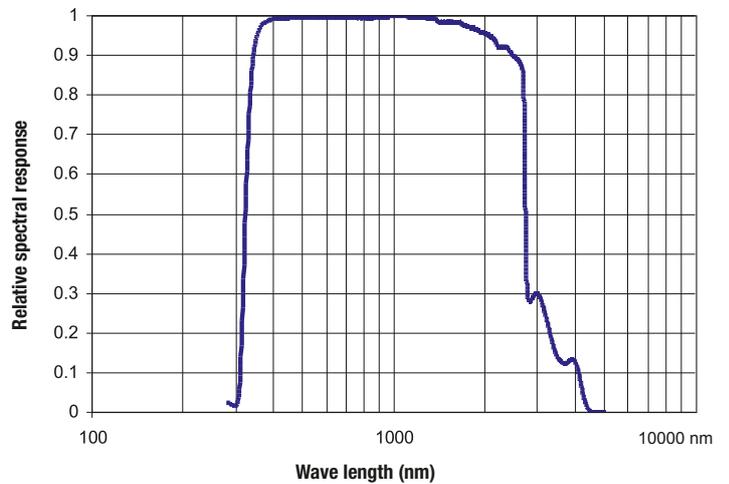
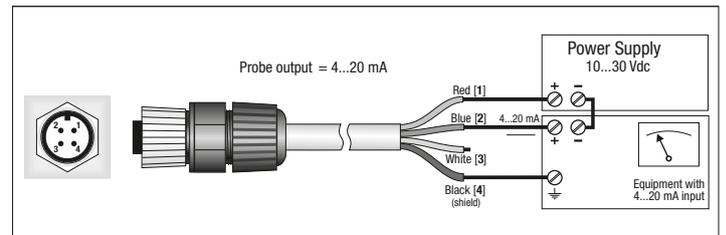
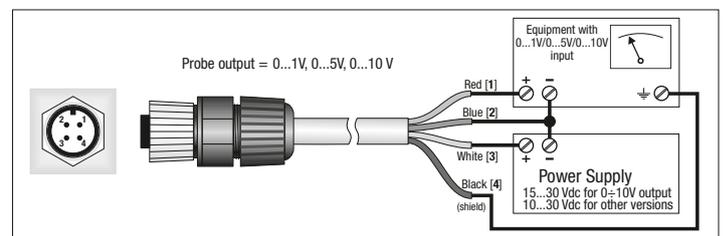


Figure 1. Typical spectral response of the pyranometers.

LP PYRA 08BLAC



LP PYRA 08BLAV



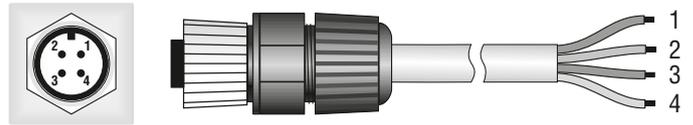
PURCHASING CODES

LP PYRA 08: Second Class pyranometer according to ISO 9060, complete with fast response sensor, calibration report. Different configurations available. M12 male connector. The cable with the female connector must be ordered separately. Use the cables CPM12 AA ... 2, 5 or 10 meters.

LP PYRA **08** = output in mV per kW / m²
08BL = output mV per kW / m², complete with base and level
08BLAC = output 4÷20 mA, complete with base and level
08BLAV = 0÷10 V, complete with base and level

CABLES:
CPM12 AA4 **2** = 2m long
5 = 5m long
10 = 10m long

WIRING DIAGRAMS:
4-poles cable CPM12 AA4...



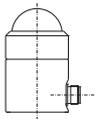
Fixed 4-pole plug M12 Flying 4-pole M12 socket

LP PYRA 08, LP PYRA 08BL, LP PYRA 08BLAC

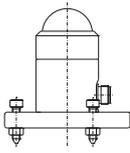
Connector	Function	Colour
1	Negative (-)	Blue
2	Positive (-)	Red
3	Display	Black
4	Not connected	White

LP PYRA 08BLAV

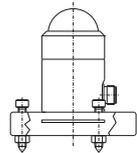
Connector	Function	Colour
1	(+) Vout and (-) Vcc	Blue
2	(+) Vout	Red
3	Display	Black
4	(+) Vcc	White



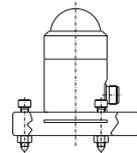
LP PYRA 08



LP PYRA 08BL



LP PYRA 08BLAC



LP PYRA 08BLAV



LP PYRA 08BLAC
 LP PYRA 08BLAV



LP PYRA 08 BL



LP PYRA 08