





Delta 0hm 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.

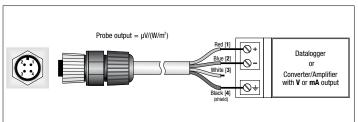
The pyranometer LP PYRA 08, measure the radiation on a flat surface (Watt/ m<sup>2</sup>). The radiation measured is the sum of direct solar irradiance and diffuse irradiance (global radiation).

The sensors with mV output does not need power and have a typical sensitivity of 15 mV / (kW m<sup>-2</sup>). 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. The heating option allows you to operate at low temperatures with good results in those places where frequent snowfall would cover the glass dome for long periods.

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/m²)		
Impedance	5Ω		
Measuring range	2000 W/m²		
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%) Zero Off-set	<8 sec 25 W/m²		
a) Response to a thermal radiation (200 W m <sup>-2</sup> )	< ±6  W/m²		
b) Response to a change of temperature 5K/h	< ±2.5  %		
Long-term instability (1 year)	< ±2  %		
Non linearity	< ±22  W/m²		
Response according to cosine	< ±7  W/m²		
Spectral selectivity	<8%		
Tilt response	< +4  %		

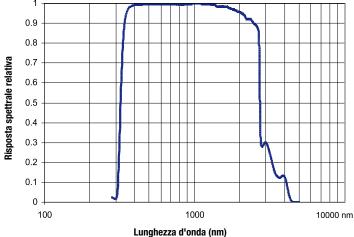
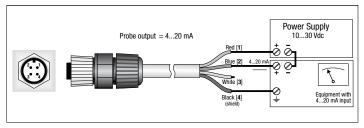


Figure 1. Typical spectral response of the pyranometers.

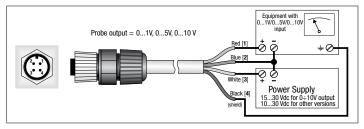
## **PURCHASING CODES**

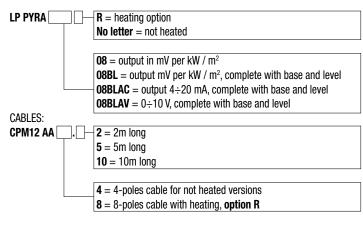
LP PYRA 08: Second Class pyranometer according to ISO 9060, complete with fast response sensor, calibration report, Silica gel can be replaced when exhausted. Different configurations available. M12 male connector. The cable with the female connectormust be ordered separately. Use the cables CPM12 AA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

#### LP PYRA 08BLAC



#### LP PYRA 08BLAV





## WIRING DIAGRAMS:

# 4-poles cable CPM12 AA4...



Spina M12 fissa 4 poli Presa M12 volante 4 poli

## 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
1	( <del>+</del> ) Vcc	White









LP PYRA 08

LP PYRA 08BL

LP PYRA 08BLAC

LP PYRA 08BLAV

#### 8-poles cable CPM12 AA8...



#### LP PYRA 08R, LP PYRA 08BLR, LP PYRA 08BLACR

Connector	Function	Colour
1	Positive (+)	Red
2	Negative (-)	Blue
3		
4	Display	Sock
5	NTC (10K)	Brown
6		White
7	Heater	Black
8		Green

## LP PYRA 08BLAVR

Connector	Function	Colour
1	(-) Vout and (-) Vcc	Red
2	(+) Vout	Blue
3		
4	(+) Vcc	Sock
5	NTC (10K)	Brown
6		White
7	Heater	Black
8		Green







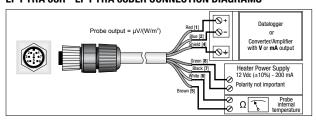


LP PYRA 08R

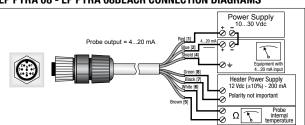
LP PYRA 08BLR

LP PYRA 08BLACR LP PYRA 08BLAVR

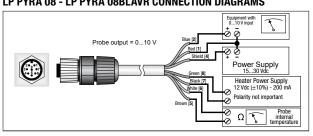
# LP PYRA 08R - LP PYRA 08BLR CONNECTION DIAGRAMS



## LP PYRA 08 - LP PYRA 08BLACR CONNECTION DIAGRAMS



## LP PYRA 08 - LP PYRA 08BLAVR CONNECTION DIAGRAMS







LP PYRA 08 BL

LP PYRA 08