

LP PYRA 08



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.

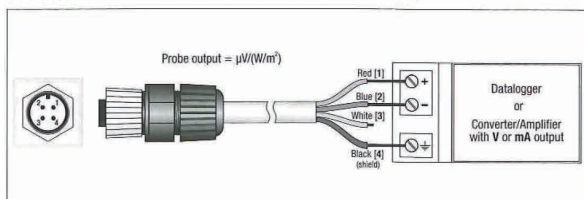
The pyranometer LP PYRA 08, measure the radiation on a flat surface (Watt/m²). The radiation measured is the sum of direct solar irradiance and diffuse irradiance (global radiation).

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 %

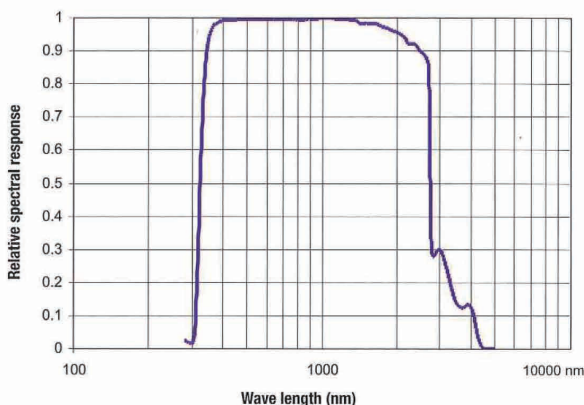
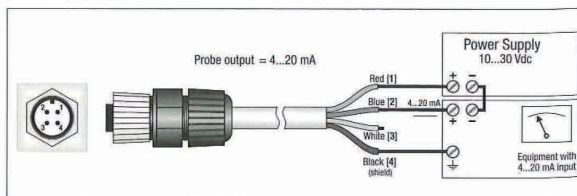


Figure 1. Typical spectral response of the pyranometers.

LP PYRA 08BLAC



LP PYRA 08BLAV

