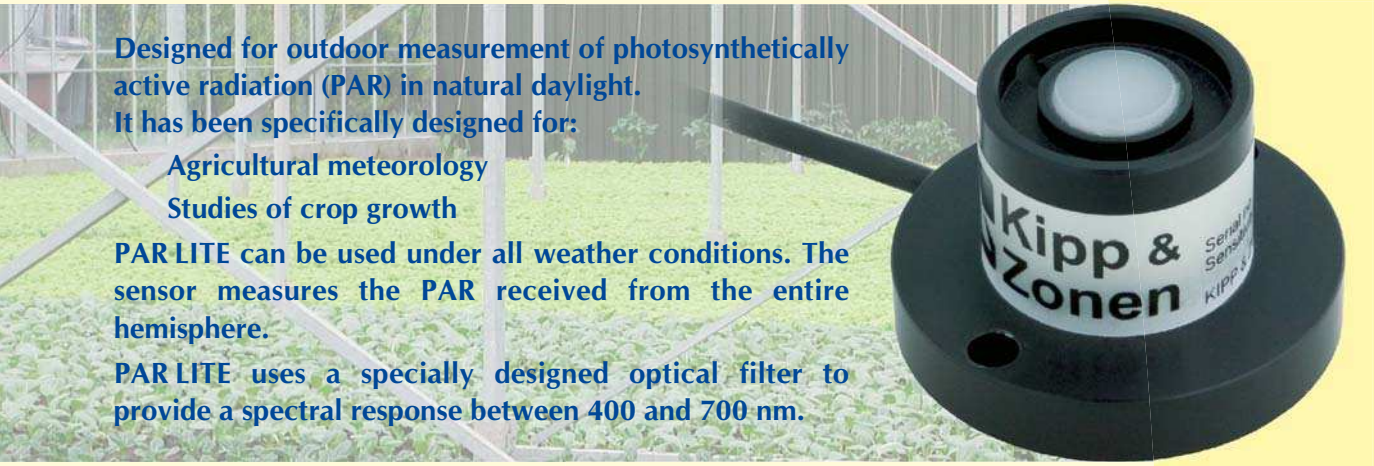
Kipp & Zonen
SINCE 1830

PAR LITE

PHOTOSYNTHETIC ACTIVE RADIOMETER



Designed for outdoor measurement of photosynthetically active radiation (PAR) in natural daylight.
It has been specifically designed for:

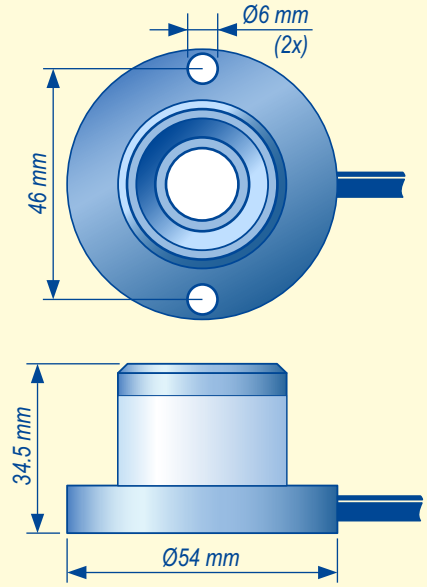
- **Agricultural meteorology**
- **Studies of crop growth**

PAR LITE can be used under all weather conditions. The sensor measures the PAR received from the entire hemisphere.

PAR LITE uses a specially designed optical filter to provide a spectral response between 400 and 700 nm.

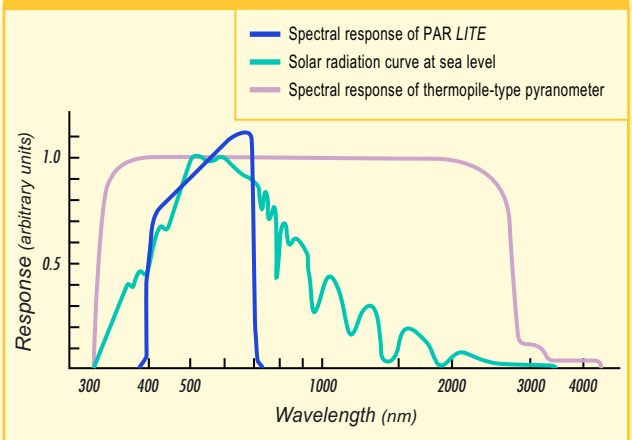
SPECIFICATIONS

Range	0 to 10.000 μmol/m^2·s
Sensitivity (nominal)	4 to 6 μV/μmol/m^2·s
Spectral range cut on cut off	400 to 700 nm 400 ±15 nm 700 ±15 nm
Response time	< 0.1 s
Quantum response match error (450 ... 650 nm)	<10 %
Directional error (up to 80 degrees)	<10 %
Operating temperature	-30 °C to +70 °C
Temperature dependence of sensitivity	-0.1 %/°C (typical)



PAR *LITE* uses a photodiode sensor, which creates a voltage output that is proportional to the incoming radiation. Due to the unique design of the diffuser, its sensitivity is proportional to the cosine of the angle of incidence of the incoming radiation, allowing for accurate and consistent measurements.

SPECTRAL RESPONSE



PAR *LITE* is easy to use. It can be directly connected to voltmeter or data logger. By using the sensitivity a direct readout in μmol/m^2·s can be derived. For each sensor the individual sensitivity is indicated on the instrument.

SOLAR & ATMOSPHERIC SCIENCE

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