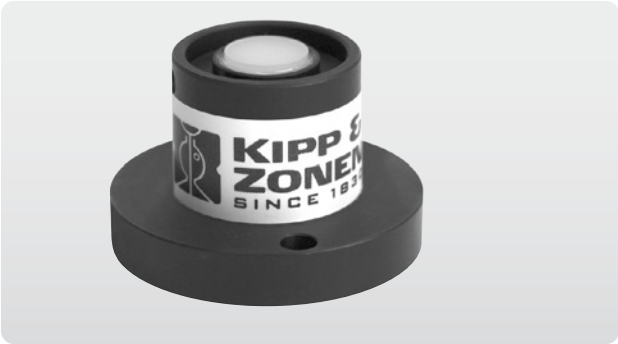
PAR Lite



PAR Lite Photosynthetically Active Radiation (PAR) from the sun or artificial light sources produces chlorophyll and promotes growth in plants, and is a key input for agriculture, horticulture and greenhouse automation.

PAR Lite uses a Teflon™ diffuser, optical interference filter and a photo-diode detector to measure radiation with the defined PAR spectral response. No power is required; the detector generates a small voltage output proportional to the PAR received.

Two PAR Lite instruments can easily be bolted back-to-back and fitted with a CLF 1 levelling fixture to make a simple net PAR sensor. The standard cable length is 5 m with an option of 15 m.

Specifications

Response time (95 %)	< 0.1 s
Non-linearity (over full range)	< 1 %
Directional error (at 80 ° solar zenith angle)	< 5 %
Temperature dependence of sensitivity	- 0.1 %/°C (typical)
Sensitivity	4 to 6 µV/µmol/s.m²
Operating temperature range	-30 °C to +70 °C
Spectral range	400 nm to 700 nm (PAR response)
Output range	0 to 10000 µmol/s.m²

Article	Part number
PAR Lite Photosynthetically Active Radiation Sensor 5 m cable	**0348900-001**
Options for PAR Lite	
PAR Lite Photosynthetically Active Radiation Sensor 15 m cable	0348900-003
PAR Lite Photosynthetically Active Radiation Sensor AMPBOX • 5 m cable	0348900-801
PAR Lite Photosynthetically Active Radiation Sensor AMPBOX • 15 m cable	0348900-803

Note: AMPBOX is adjusted so that 4-20 mA output = 0-3200 µmol/s.m²

Accessories for PAR Lite	Part number
Mounting Rod Screw-in 300 mm long x 12 mm Ø	**0338720**
CMB 1 Mounting Bracket In combination with mounting rod for easy attachment to a pole or a wall	**0369701**
CLF 1 Levelling Fixture for PAR Lite	**0338700**
METEON + PAR Lite • 5 m cable	**0348920-701**

KIPP & ZONEN
SINCE 1830