

PAR & lux sensors

with amorphous silicon cells

SOLEMS PAR sensors are simple and solid quantum sensors measuring a visible radiation very similar to PAR and lux spectral range. They can be used indoors or outdoors, in any climatic conditions. Calibration given below corresponds to natural sunlight.

Spectral response : 400 - 750 nm

Active material : amorphous silicon

Illumination range : 1 - 2500 $\mu\text{moles PAR}/\text{m}^2.\text{s}$ or 10 - 150000 lux

Type of output : voltage

Temperature coefficient in % / °C : + 0.2 % from - 5 to + 40 °C

Cosine response : corrected up to 80°

Weather protection : PMMA housing and polyurethane resin

Connections : Shielded cable 2 x 0.22mm² 5 m-long ⁽¹⁾

Permanent temperature : - 30 °C / + 40 °C

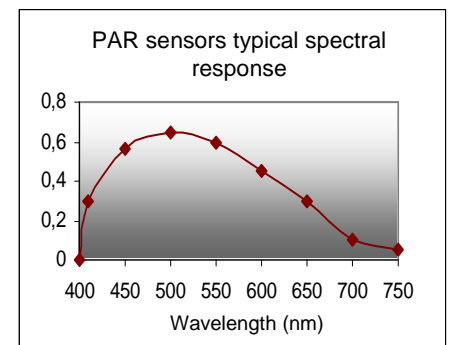
Peak temperatures : - 40 °C / + 60 °C

Permanent humidity : 85 % R.H.

Peak humidity : 100 % R.H.

UV stability : Excellent (PMMA filters UV)

Occasional immersion : possible only during a few hours



PAR/CBE 80 Ponctual PAR sensor in mV

No external power needed (photovoltaic mode)

Ref. DPAR/CBE2B#

Active area : 32mm²

Typical output : 80 mV @ 1000 $\mu\text{moles PAR}/\text{m}^2.\text{s}$
120 mV @ 100 000 lux

Dimensions (excluding the cable) : ϕ 25 mm H 18.5 mm

PAR/CBE 4-20 Ponctual PAR sensor 4-20mA

Current loop with a 15V power supply and a charge of 180ohms

Ref. DPAR/4201B#

Active area : 32mm²

Typical output : 20 mA @ 1200 $\mu\text{moles PAR}/\text{m}^2.\text{s}$ (can be adjusted on request)

Dimensions (excluding the cable) : ϕ 25 mm H 18.5 mm



PAR/LE Line 30cm PAR sensor in mV

No external power needed (photovoltaic mode)

Ref. DPAR/LEC1C#

Active area : 286 x 3mm (complete detective surface)

Typical output : 30 mV @ 1000 $\mu\text{moles de PAR}/\text{m}^2.\text{s}$
45 mV @ 100 000 lux

Dimensions (excluding the cable) : 295 x 20 x 15mm

(1) Other cable lengths available : 10, 15, 20, 30, and 50 m. Product ref. according to cable length.
Example : DPAR/CBE2BR = PAR/CBE 80 with a 20m cable (B=5m P=10m Q=15m R=20m S=30m T=50m).