



INDIUM SENSOR

Elektronische Geräte für Industrie und Umwelt

Quantum radiation measuring head type 6.1

Quantum Radiation

The ability to absorb light radiation is required for herbal life, chlorophyll has a special significance in that process.

If the intensity of light is too low, the plant will not get enough energy to grow, if the intensity is too high the plant will emit energy as fluorescence. This is an indication for the growth conditions of a plant.

If the light is too strong the plant will get dry and burned.

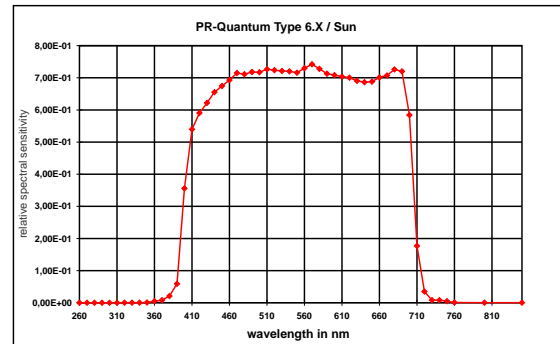
Quantum sensor type 6.1

Sensitivity corresponds to the absorption spectrum of chlorophyll. Measuring results are allowing immediate conclusions about the conditions for plant growth.

The quantum measuring head may be used for optimizing photochemical processes of open-land and greenhouse agriculture.

The sensor is used in agricultural research, gardening, agriculture as well as in education.

The housing is made of weatherproof anodized aluminum. Results are cosine corrected. The dome is made of quartz glass.



Technical specifications

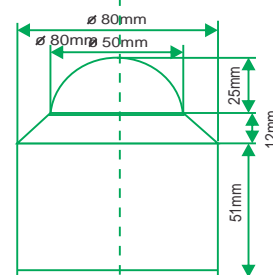
Measuring range	0 - ca. 3000 $\mu\text{mol}/\text{sm}^2$
Spectr. sensitivity	380 nm - 720 nm
Max. spectral sensitivity sensor system	420 nm and 700 nm Si interf. filter
Working temperature	-55 - +80°C -70 - +170 °F
Signal output	0V - 5V/ 4 - 20 mA (adjustable)

Power supply	+9V - +24V/*+14V-+24V **RL(0-100Ohm)
Installation	2 screws M4 in the bottom

Connector cable	downward
Diffusor material	PTFE
Dome material	optical Glass
Cosine correcture	error f2 < 1.5%
Linearity	< 1%
Abs. error	< 10 %
Dark voltage (E=0)	< 10 mV
Weight	400g 14 oz

Specifications are subject to change without prior notice.

Dimensions:



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