



INDIUM SENSOR

Elektronische Geräte für Industrie und Umwelt

Quantum radiation measuring head type 6.15

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.

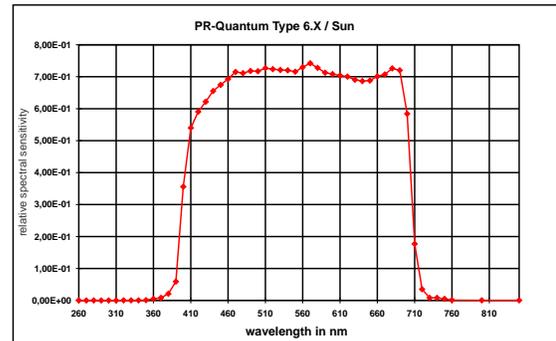
Quantum sensor type 6.15

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 device features an anodized aluminum housing suitable for indoor use. The window is made of PTFE. The values are cosine corrected.



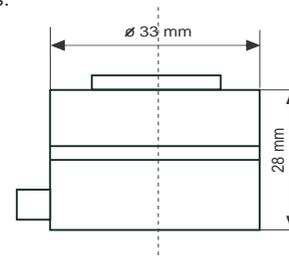
Technical specifications

measuring range	0 - ca. 3000 $\mu\text{mol}/\text{sm}^2$
spectr. sensitivity	380 nm - 720 nm
max. of spectr. Sensitivity	420 nm and 700 nm
sensor system	Si interf. filter
working temperature	-20°C - +60°C -4 - +140°F
signal output	0V - 2V or otr. (negotiable)
power	+5V - +15V / <750 μA
turn on time	< 1 s
turn off time	< 1 s
installation	2 screws M4 in the bottom
connector	sideward
window/diffusor	PTFE
direction char.of rad.	error f2 < 3%
linearity	< 1%
absolute error	< 10%
weight	50g 2 oz



Specifications are subject to change without prior notice.

Dimensions:



Indium Sensor
Virchowstr. 7
15366 Neuenhagen
Germany
Tel: +49(0)3342 80239
Fax: +49(0)3342 207886