



INDIUM SENSOR

Elektronische Geräte für Industrie und Umwelt

UVB measuring head type 1.10

UVB sensitivity

Long UV radiation (above 313 nm) makes people tan and has positive effects on the human immune system. Shorter UV-radiation in contrast may cause irreversible damage and is listed in a recommendation by CIE (Commission Internationale de l'Eclairage) which summarizes all action spectra that may cause damage to the human skin.

This recommendation is standardized in German DIN 5050.

A popular example is the UVI sunburn index.

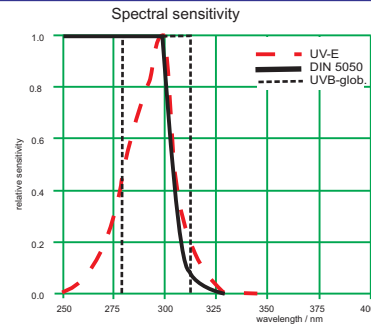
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The relative spectral sensitivity of the detector is equal to the erythema action spectrum (DIN5050).

The UVB sensor is exactly measuring the elements of this spectral range which cause damage to human cells. The determined value is allowing conclusions about biological and medical interrelations.

The measuring head is used in medicine, biological research, weather information and forecast systems, in climate research and for public information, especially in solariums/tanning beds and for suntanning.

The device is equipped with a dome of flat glass and a weatherproof housing made of aluminum. It's waterproof up to 15m (50 ft).

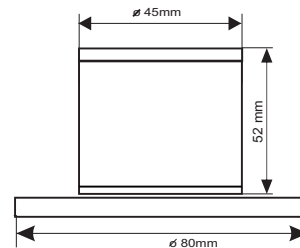


Technical specifications

Measuring range UVB	0 - 300 mW/m ²
spectr. sensitivity UVB	265 nm - 315 nm
max.spectral sensitivity UVB	297 nm
working temperature	-20°C - +60°C
signal output	0V-5V
power supply	+9V - 18V / <750µA
turn on time	< 1 s
turn off time	< 12 s
installation	2 screws M4 in the bottom downward
connector cable	PTFE
diffusor	flat glass
dome	error f2 < 6 %
cosine correction	< 1%
linearity	< 10% (< 0,2%/K)
abs. error	< 10mV
dark voltage (E=0)	ca. 300 g
weight	

Specifications are subject to change without prior notice.

Dimensions:



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