INDIUM SENSOR

Elektronische Geräte für Industrie und Umwelt

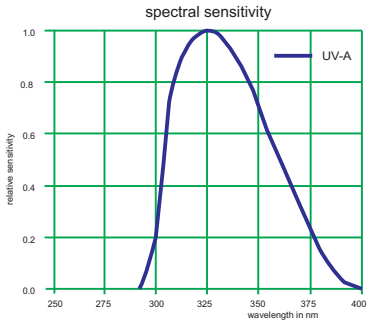
UVA measuring head type 2.10

UVA 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.

UVA measuring head type 2.10

The measuring head independently determines UV-A-radiation (global, from 315nm - 400nm).
Measuring results are allowing immediate conclusions about medically and biologically relevant connections within this band of radiation. The measuring head is used in medicine, biological research, weather information and forecast systems, in climate research and for public information in general. The device is euipped with a dome of flat glass and a weatherproof housing made of aluminum. It's waterproof up to 15m (50 ft).
Measuring values are cosine corrected.

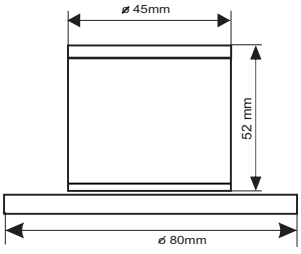


Technical specifications

Measuring range UVA	0 - 1999 W/m²
spectr. sensitivity UVA	310 nm - 400 nm
max.spectral sensitivity UVA	335 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
cable	in the ground of body downward
diffusor	PTFE
dome	PMMA
cosine correction	error f2 < 6 %
linearity	< 1%
abs. error	< 10% (< 0,2%/K)
voltage (E=0)	< 10mV
weight	ca. 300 g

Specifications are subject to change without prior notice.

Dimensions:



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