



UV- A / UV- E - measuring head type 1.1

UV-A-/UV-E-sensitivity

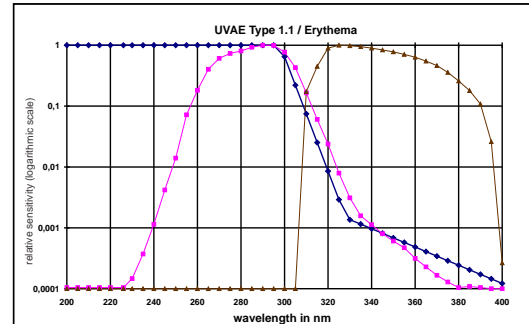
Long UV radiation (above 323 nm) makes people tan and has positive effects on the human immune system. Shorter UV-radiation in contrast may cause irreversible damage and is listed in a recommendation by CIE (Commission Internationale de l'Eclairage) which summarizes all action spectra that may cause damage to the human skin.

This recommendation is standardized in German DIN 5050.

A popular example is the UVI sunburn index.

UV-A-UV-E measuring head type 1.1

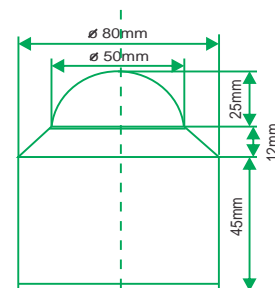
The measuring head independently determines UV-A-radiation (global, from 310nm - 400nm) and UV-B-radiation (from 265 nm - 315 nm). Measuring results are allowing immediate conclusions about medically and biologically relevant connections within this band of radiation. The measuring head is used in medicine, biological research, weather information and forecast systems, in climate research and for public information in general. The measuring head type 1.1 has a weatherproof aluminum housing. The dome is made of quartz glass. The values are cosine corrected.



Technical specifications:

measuring range UV-E	0 - ca. 0.5 W/m ²
measuring range UV-A	0 - ca. 100 W/m ²
spectr. sensitivity UV-E	265nm - 315nm
spectr. sensitivity UV-A	310nm - 400nm
max. of spectr. sensitivity sensor system	297nm / 335nm
working temperature	-30°C - +60°C -22 - +140°F
signal output	0V - 5V/ 4 - 20 mA(adjustable)
power	+10V - +24V / 750µA
turn on time	< 1 s
turn off time	< 1 s
installation	2 screws M4 in the bottom
connector	downward
diffusor	PTFE
housing-dome	quartz
cosine correction	error f2 < +/-2%
linearity	< 1%
absolute error	< 10%
coeff. of temperature	0.1%/K
weight	400g 14 oz

Dimensions:



Specifications are subject to change without notice.

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