



## UV- B measuring head type 1B.1

### UV-B- 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.

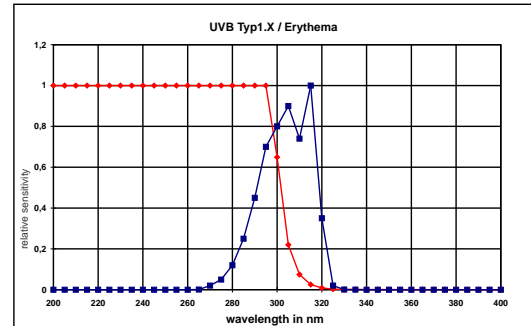
This recommendation is standardized in German DIN 5050.

A popular example is the UVI sunburn index.

### UV-B measuring head type 1B.1

The measuring head independently determines UV-B-radiation from 280nm - 320nm.

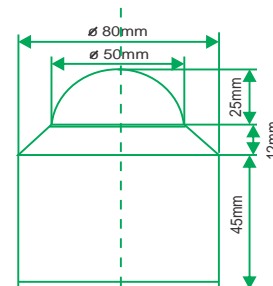
Measuring results are allowing immediate conclusions about medically and biologically relevant connections within this band of radiation. The measuring head is used in medicine, biological research, weather information and forecast systems, in climate research and for public information in general. The measuring head type 1B.1 has a weatherproof aluminum housing. The dome is made of quartz glass. The values are cosine corrected.



### Technical specifications:

measuring range UV-B	0 - ca. 5 W/m <sup>2</sup>
spectr. sensitivity UV-B	280nm - 320nm
max. spectr. sensitivity	315nm
sensor system	SiC interf. filter
working temperature	-30°C - +60°C   -22 - +140°F
signal output	0V - 5V/ 4 - 20 mA(adjustable)
power	+10V - +24V / 750µA
time to switch on	< 1 s
time to switch off	< 1 s
installation	2 screws M4 in the bottom
connector	bottom, downward
diffusor	PTFE
housing-dome	quartz
cosine correction	error f2 < 1.5%
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