



UV-A/UV-B measuring head type 2AB.1W

UVA/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.

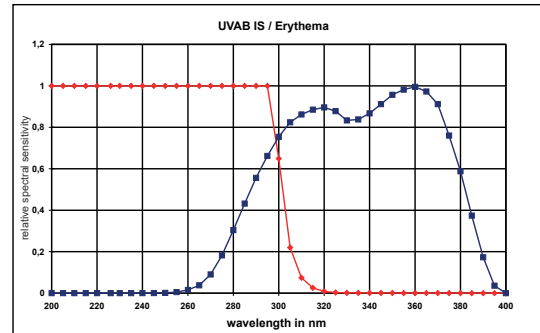
A popular example is the UVI sunburn index.

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The measuring head independently determines UVA- and UVB-radiation (global, from 280nm - 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 measuring head type 2AB.1W has a weatherproof aluminum housing. The dome is made of quartz glass. The values are cosine corrected.

To change the silica gel open the four M2 screws in the bottom of the housing.



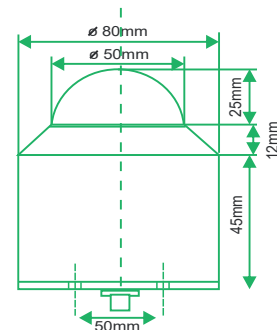
Technical specifications:

measuring range UV-AB	0 - ca. 150 W/m ²
spectr. sensitivity UV-AB	280nm - 400nm
max. of spectr. Sensitivity UV-AB	365nm
sensor system	GaP
working temperature	-30°C - +60°C -22 - +140°F
signal output	0V - 5V / 0 - 20 mA (as requested)
power	+10V - +24V / 750µA
turn on time	< 1 s
turn off time	< 1 s
installation	2 screws M4 in the bottom
connector	bottom, downward
diffusor	PTFE
housing-dome	quartz
direction char. of rad.	error f2 < 1.5%
linearity	< 1%
absolute error	< 10%
coeff. of temperature	0.1%/K
weight	400g 14 oz

Specifications are subject to change without notice.



Dimensions:



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