



UV- A measuring head type 2.1

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.

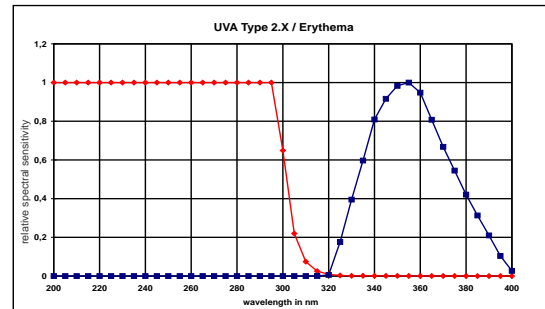
This recommendation is standardized in German DIN 5050.

A popular example is the UVI sunburn index.

UVA measuring head type 2.1

The measuring head independently determines UV-A-radiation (global, from 310nm - 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 2.1 has a weatherproof aluminum housing. The dome is made of quartz glass. The values are cosine corrected.

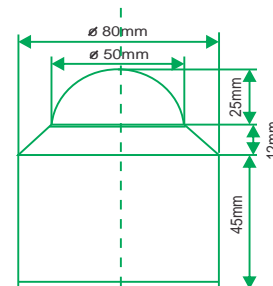


Technical specifications:

| | |
|----------------------------------|--------------------------------|
| measuring range UV-A | 0 - ca. 100 W/m ² |
| spectr. sensitivity UV-A | 310nm - 400nm |
| max. of spectr. Sensitivity UV-A | 355nm |
| sensor system | SiC + filter |
| working temperature | -30°C - +60°C -22 - +140°F |
| signal output | 0V - 5V/ 4 - 20 mA(adjustable) |
| RL | 0 Ohm .. 100 Ohm |
| 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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