



INDIUM SENSOR

Elektronische Geräte für Industrie und Umwelt

Global radiation measuring head type 7.5

Global radiation

The complete direct and diffuse sun radiation hitting the ground is called global radiation. The spectral range extends from the short-wave range at 300 nm (UV-B) to the long-wave range at 5000 nm (IR). The radiation energy above 1000nm however is less than 10% only.

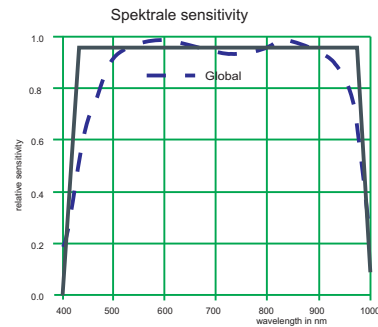
Global measuring-head type 7.5

The sensor is able to detect almost 90% of the sunlight in the range between 400 nm and 1100 nm and includes UV, VIS and some of IR.

Measuring results are allowing immediate conclusions about medically and biologically relevant connections by comparing them to other spectral ranges.

The measuring head may be used in medicine, biological research, weather information and forecast systems, in climate research and for public information in general.

The measuring head of type 7.5 has a weather resistant case, made of aluminium. The measuring results are cosine corrected. The dome is made of plastic (PMMA) or flat glass.

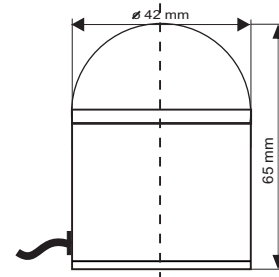


Technical specifications

| | |
|-------------------------|------------------------------|
| Measuring range global | 0 - at 1300 W/m ² |
| spectr. sensitivity | 400 nm - 1100 nm |
| max. spectr.sensitivity | 780 nm |
| working temperature | -20°C - +60°C |
| power supply | 0V - 5V a.o. +10V - +24V |
| installation | 2 screws M4 in the bottom |
| connector cable | sideward |
| diffusor | PTFE |
| dome | PMMA/ flat glass |
| cosine correction | foult f2 < 6% |
| linearity | < 1% |
| abs. error | < 10 % |
| voltage (E=0) | < 20 mV |
| weight | ca. 170 g 6 oz |

Specifications are subject to change without notice.

Dimensions:



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