

UV-A, UV-B radiometers





- ▶ Good answer to the UV-A and UV-B band curves
- ▶ Calibration made under the sun for a better response to sunshine and atmospheric conditions
- ▶ Traceability to ARPA Ivrea (Italy) laboratory (ISO17025)
- ▶ Very good cosine response
- ▶ Broadband spectral response
- ▶ Thin film metal interference filter technology and specially developed silicon photodiode according to WMO requirements
- ▶ 4...20 mA analogue output and 10...30 V AC/DC power supply

Radiometer with broad spectral response for measuring of atmospheric irradiance in the UV-A and UV-B spectrum. The sensing element is a photodiode with optical filter with interferential deposition in order to improve spectral transmission. A high-quality dome and diffuser improves cosine response for radiations coming from lower angles.

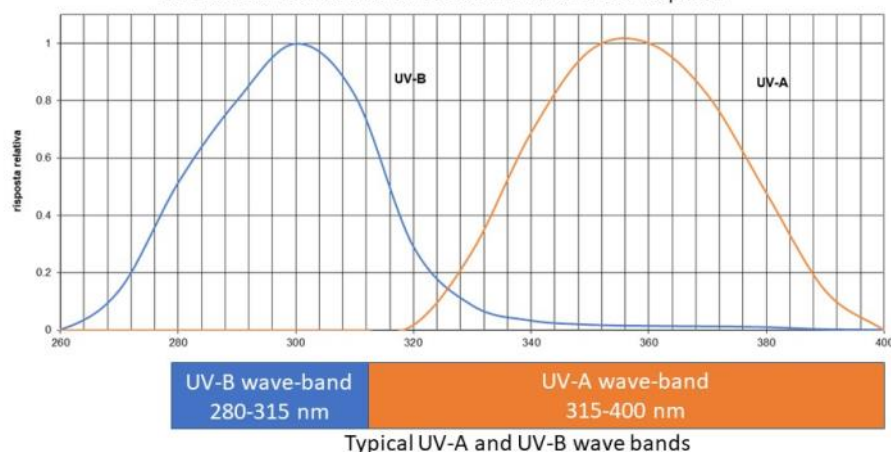
Technical Specifications

| PN | | DPA817 | DPA822 |
|---------------------|-------------------------------------|--|--|
| UV sensor | Measurement | UV-A | UV-B |
| | Principle | Photodiode with high sensitivity in UV range | |
| | Spectral range | 315...400 nm | 280...315 nm |
| | Expanded accuracy | 18% daily in clear sky | 22% daily in clear sky and 310-330 DU at 45° latitude (Dobson unit = Ozone column) |
| | Cosine error | ±8% for incidence angles < 60° (see fig. at pag.2) | |
| | Calibration | Under sun | Under sun |
| | Measuring range | 0...70 W/m ² | 0...5 W/m ² |
| General Information | Output | 4...20 mA | |
| | Power supply | 10...30 V AC/DC | |
| | Max Load | 300 Ohm | |
| | Power consumption | 0.7 W | |
| | Recalibration | Every 2 years | |
| | Housing | Anodized aluminum | |
| | Cable | Not included. See accessories | |
| | Installation (on Ø 45...65 mm pole) | DYA034 arm+DYA049 collar | |
| | EMC | EN 61326-1: 2013 | |
| | Grado di protezione | IP66 | |
| | Data logger compatibility | E-Log, Alpha-Log | |

Accessories

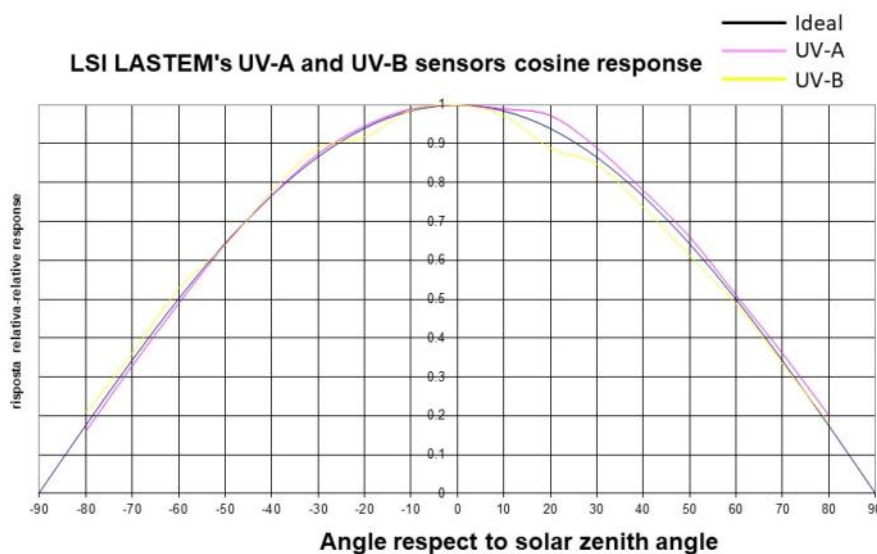
| | | |
|---|----------------|--|
|  | DYA049 | Mast-mounting device for Ø 45...65 mm pole |
| | DYA034 | Arm for fixing DPA817-822 to DYA049 collar |
|  | DWA405A | Cable L=5 m |
| | DWA410A | Cable L=10 m |
| | DWA425A | Cable L=25 m |
| | DWA426A | Cable L=50 m |
| | DWA427A | Cable L=100 m |

LSI LASTEM's UV-A and UV-B sensors wave band response



▶ LSI LASTEM UV-A and UV-B sensors have a good response to the typical wave bands of the UV radiations.

LSI LASTEM's UV-A and UV-B sensors cosine response



▶ LSI LASTEM UV-A and UV-B sensors have a good response to the sun declination during the day (cosine response).