

### 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 Vac/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.

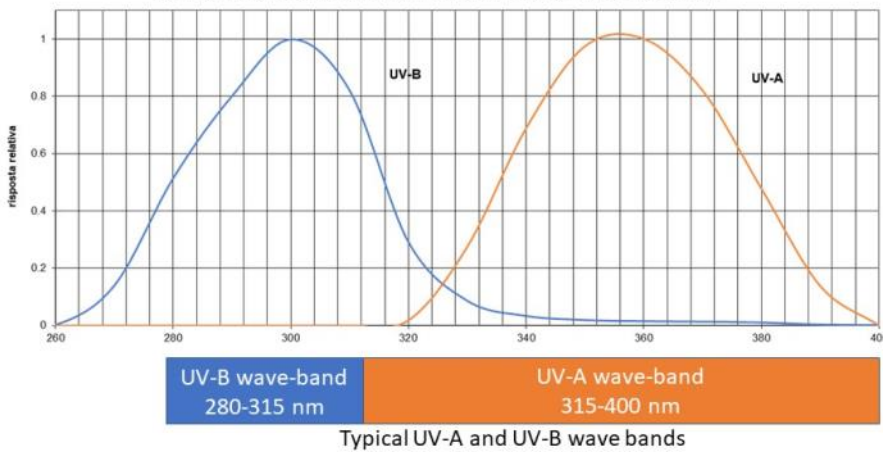
#### Technical Specifications

PN		DPA817	DPA822
<b>UV sensor</b>	Measurement	UV-A	UV-B
	Principle	Photodiode with high sensitivity in UV range	
	Spectral range	315÷400 nm	280÷315 nm
	Accuracy	12% daily in clear sky	15% daily in clear sky and 310-330 DU at 45° latitude.
	Cosine error	±8% for incidence angles < 60° (see fig. at pag.2)	
	Calibration	Under sun	Under sun
	Measuring range	0÷70 W/m <sup>2</sup>	0÷5 W/m <sup>2</sup>
<b>General Information</b>	Output	4÷20 mA	
	Power supply	10÷30 Vac/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	M-Log (ELO008), R-Log (ELR515), E-Log, A-Log	

## Accessories

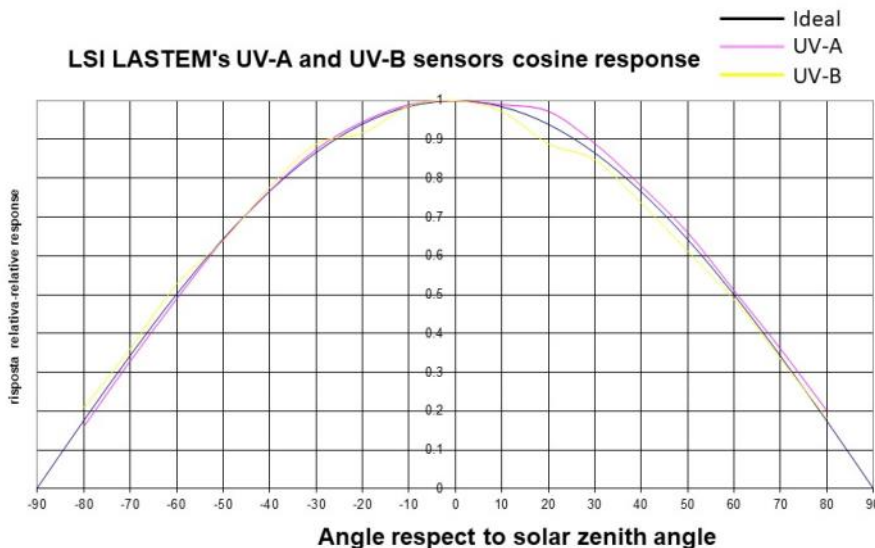
	<b>DYA049</b>	Mast-mounting device for Ø 45-65 mm pole
	<b>DYA034</b>	Arm for fixing DPA817-822 to DYA049 collar
	<b>DWA410</b>	Cable L=10 m
	<b>DWA425</b>	Cable L=25 m
	<b>DWA426</b>	Cable L=50 m
	<b>DWA427</b>	Cable L=100 m

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).