Luxmeter radiation sensor

- IP66 lux sensor for outdoor measurements of illuminance intensity in lx
- Wide measurement range, up to 150.000 lx for outdoors
- Accessories for 4...20 mA and RS-485 signal output

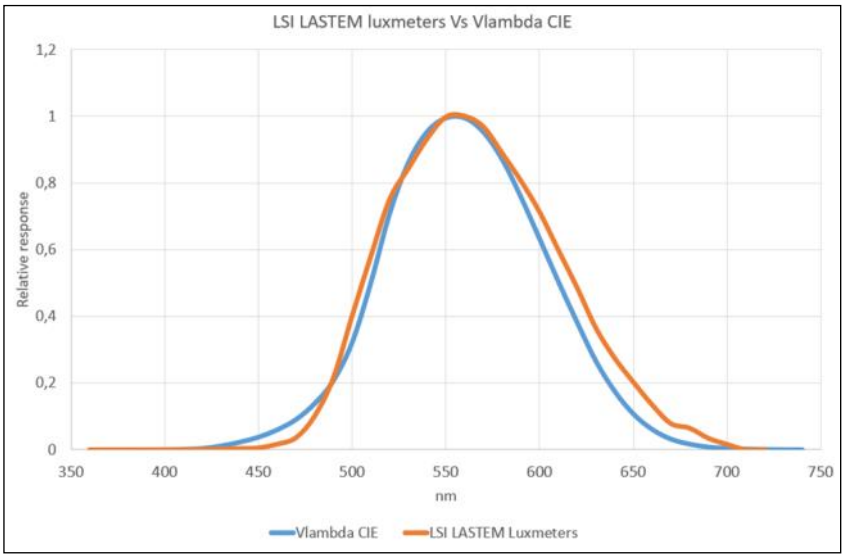
Luxmeter probes to measure illuminance in long term outdoor applications according to the response of the human eye (Vlambda CIE curve). The sensing element is a photodiode with optical filter with interferential deposition in order to improve spectral transmission.
To convert the signal output to 4...20 mA or Modbus, it is possible to use STB or MSB converters.

Technical Specifications

PN	ESR003A.1
Measurement	Lux
Principle	Photodiode
Spectral range	Vlambda CIE curve
Accuracy	±3%
Measuring range	0...150 KLux
Response time	0.1 s
Linearity	< 1%
Recalibration	Every 2 years
Output	0...300 mV
Power supply	7...15 V DC
Consumption	5 mA
Connector	Free wires (4-wire)
Housing	Anodized aluminum
Protection	IP65
Cable	L=10 m
Installation (on Ø 45...65 mm pole)	DYA032+DYA049
Calibration certificate	Not included (see Accessories)
Data logger compatibility	E-Log, Alpha-Log (using ALIEM module)

Accessories

	DYA032	Horizontal arm for fixing ESR003A.1 sensor to DYA049 collar
	DYA049	Mast-mounting collar for Ø 45...65 mm pole
	SVICA6001	ISO9001 calibration certificate for Lux sensors
	**DEA420.1** **DEA420.2**	STB– Signal Transducer Box Signal converter for PAR and Lux sensors Output: 4...20 mA Power supply 10...30 V AC/DC For more technical information, see MW9008 catalogue
	MDMMA1010.1	MSB– Modbus Sensor Box Same features as DEA420.1 but: Output: RS485 Modbus-RTU



Overall luxmeter response curve compared with the Vlambda CIE curve corresponding to the response of the human eye to daylight.

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