Global Radiation Probe Head FLA 633 GS



- Measuring head in anodized aluminium housing with a plastic dome that is transparent to UV light.
- Rain and splash-proof system, additionally with desiccant to prevent dome from inside condensation.
- Particularly suitable for outdoor measurements, e.g. in medical and biological research, weather information and forecast systems, climatology, agriculture and for general public information.

Technical Data

Measuring range:	0.4 to approx. 1200 W/m²
Spectral sensitivity:	400 nm to 1100 nm
Maximum spectral sensitivity:	780 nm
Signal output:	0 V to 2 V
Power supply:	+5 V to +15 V
Mounting:	2 screws M4, in base plate Bolt circle Ø 50 mm
Cable passage:	downwards
Housing:	anodized aluminium
Diffusor:	PTFE
Dome:	PMMA

Cos correction:	error f2 < 3 %
Linearity:	< 1 %
Absolute error:	< 10 %
Residual voltage: (E = 0)	< 10 mV
Nominal temperature:	22 °C ±2 °C
Operating temperature:	–20 °C to +60 °C
Dimensions:	Dome diameter: 40 mm Housing diameter 80 mm Height 53 mm +10 mm (conical ring) +20 mm (dome)
Weight:	approx. 300 g

Option	Order no.
Longer cable Total length = 5 meters	**OA9613K05**

Type (including test protocol)	Order no.
Weather-proof measuring head for measuring the global radiation, incl. ALMEMO® connector with 1.5 m cable	**FLA633GS**
Factory calibration KL90xx radiation for sensor, see chapter „Calibration certificates“	

Illuminance measuring head FLA 633 VLM



- Measuring head in anodized aluminum housing, with UV-transparent plastic dome.
- Rain-proof, splash-protected system, with desiccant to prevent condensation forming on the inside of the dome.
- Especially suitable for measuring operations outdoors, e.g. in medical, biological, and climate research, in weather information forecast systems, in agriculture, and for the purposes of general information for the public.
- The spectral sensitivity of the receiver corresponds approximately to that of the human eye.

Technical Data

Measuring range:	0.05 to 170 klux (approx. 250 W/m²)
Spectral sensitivity:	360 to 760 nm
Max. spectral sensitivity:	550 nm
Signal output:	0 to 2 V
Power supply:	+5 to +15 V
Mounting:	2 screws M4, in base plate Bolt circle Ø 50 mm
Cable passage:	downwards
Housing:	anodized aluminum
Diffusor:	PTFE
Dome:	PMMA

Cos correction:	error f2 <3 %
Linearity:	<1 %
Absolute error:	<10 %
Residual voltage: (E = 0)	<10 mV
Nominal temperature:	22 ± 2 °C
Operating temperature:	-20 to +60 °C
Dimensions:	Dome diameter: 40 mm Housing diameter 80 mm Height 53 mm +10 mm (conical ring) +20 mm (dome)
Weight:	approx. 300 g

Type (including test protocol)	Order no.
Weather-resistant measuring head for measuring the illuminance including cable, 1.5 m, and ALMEMO® connector	**FLA633VLM**
Factory calibration KL90xx radiation for sensor, see chapter „Calibration certificates“	

11/2025 • We reserve the right to make technical changes.

UVA Radiation Probe Head FLA 633 UVA



- Measuring head in anodized aluminium housing with a plastic dome that is transparent to UV light.
- Rain and splash-proof system, additionally with desiccant to prevent dome from inside condensation.
- Particularly suitable for outdoor measurements, e.g. in medical and biological research, weather information and forecast systems, climatology, agriculture and for general public information.

Technical Data

Measuring range:	0.03 to approx. 100 W/m²
Spectral sensitivity:	310 to 400 nm
Maximum spectral sensitivity: 355 nm	
Signal output:	0 V to 2 V
Power supply:	+5 V to +15 V
Mounting:	2 screws M4, in base plate Bolt circle Ø 50 mm
Cable passage:	downwards
Housing:	anodized aluminium
Diffusor:	PTFE
Dome:	PMMA (transparent to UV)

Cos correction:	error f2 < 3 %
Linearity:	< 1 %
Absolute error:	< 10 %
Residual voltage: (E = 0)	< 10 mV
Nominal temperature:	22 °C ±2 °C
Operating temperature:	–20 °C to +60 °C
Dimensions:	Dome diameter: 40 mm Housing diameter 80 mm Height 53 mm +10 mm (conical ring) +20 mm (dome)
Weight:	approx. 300 g

Type (including test protocol)	**Order no.**
Weather-proof measuring head for measuring the UVA radiation including cable, 1.5 m, and ALMEMO® connector	**FLA633UVA**

Factory calibration KL90xx radiation for sensor, see chapter „Calibration certificates“

UVB Radiation Probe Head FLA 633 UVB



- Measuring head in anodized aluminium housing with a plastic dome that is transparent to UV light.
- Rain and splash-proof system, additionally with desiccant to prevent dome from inside condensation.
- Particularly suitable for outdoor measurements, e.g. in medical and biological research, weather information and forecast systems, climatology, agriculture and for general public information.

Technical Data

Measuring range:	0.02 to approx. 50 mW/cm²
Spectral sensitivity:	265 to 315 nm
Maximum spectral sensitivity:	297 nm
Signal output:	0 V to 2 V
Power supply:	+5 V to +15 V
Mounting:	2 screws M4, in base plate Bolt circle Ø 50 mm
Cable passage:	downwards
Housing:	anodized aluminium
Diffusor:	PTFE
Dome:	PMMA (transparent to UV)

Cos correction:	error f2 < 3 %
Linearity:	< 1 %
Absolute error:	< 10 %
Residual voltage: (E = 0)	< 10 mV
Nominal temperature:	22 °C ±2 °C
Operating temperature:	–20 °C to +60 °C
Dimensions:	Dome diameter: 40 mm Housing diameter 80 mm Height 53 mm +10 mm (conical ring) +20 mm (dome)
Weight:	approx. 300 g

Type (including test protocol)	**Order no.**
Weather-proof measuring head for measuring the UVB radiation including cable, 1.5 m, and ALMEMO® connector	**FLA633UVB**

Factory calibration KL90xx radiation for sensor, see chapter „Calibration certificates“

Star Pyranometer FLA 628 S



- Star pyranometer, according to Dirmhirn, for measuring the global radiation, the sky radiation and the short-wave radiation.
- The accuracy corresponds to the „First class“ according to WMO and ISO 9060.
- Independent from ambient temperature through differential temperature measurement.
- Cut precision glass cupola for shielding from external environmental effects.
- Levelling by 3 setting screws and an integrated bubble.

Technical Data

Measuring range:	0 to 1500 W/m²
Resolution:	0.1 W/m²
Spectral range:	0.3 to 3 µm
Output:	approx. 15 mV/Wm^{-2}
Impedance:	approx. 35 ohms
Operative range:	–40 to +60 °C
Accuracy:	cosine effect + azimuth effect + temperature influence
Cosine effect:	<3 % of measured value (0 to 80 ° inclination)
Inclination azimuth effect:	< 3 % of meas. val.
Temperature influence:	< 1 % of meas. val. (–20 to +40 °C)

Nominal temperature:	22 °C ±2 °C
Linearity:	<0.5 % (0.5 to 1330 W/m²)
Stability:	<1 % of the meas. range per year
Settling time:	25 s (t_{95})
Dimensions:	160 mm Ø, 75 mm high, hole circle: 134 mm Ø, holes: 8 mm Ø
Weight:	1 kg

Type (including test protocol)	**Order no.**
Star pyranometer including 3 m cable with ALMEMO® connector and programmed calibration value	**FLA628S**
Factory calibration KL90xx radiation for sensor (see chapter Calibration certificates)	

Other variants are available on request



Probe for measuring global radiation FLA 613 T1B11, 3-mode sensor: It measures UVA, VIS, IRA radiation.

Spectral sensitivity from 315 to 1100 nm



Probe for measuring global radiation FLA 613 GS-SDEK, This measures the global, direct, and diffused solar radiation (integrated shadow bar).

Spectral sensitivity from 380 to 1100 nm

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