

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. 1200W/m ²	Cos correction:	error f2 < 3%
Spectral sensitivity:	400nm to 1100nm	Linearity:	< 1%
Maximum spectral sensitivity:	780nm	Absolute error:	< 10%
Signal output:	0V to 2V	Residual voltage: (E = 0)	< 10mV
Power supply:	+5V to +15V	Nominal temperature:	22°C ±2°C
Mounting:	2 screws M4, in base plate	Operating temperature:	-20°C to +60°C
Cable passage:	downwards	Dimensions:	Dome diameter: 40 mm Housing diameter 80 mm Height 53 mm +10 mm (conical ring) +20 mm (dome)
Housing:	anodized aluminium	Weight:	approx. 300 g
Diffusor:	PTFE		
Dome:	PMMA		

Option

Longer cable Total length = 5 meters

Order no.

OA9613K05

Type (including test protocol)

Weather-proof measuring head for measuring the global radiation, incl. ALMEMO® connector with 1.5m cable

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

Order no.

FLA633GS

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/m ²)	Cos correction :	error f2 <3%
Spectral sensitivity :	360 to 760 nm	Linearity :	<1%
Max. spectral sensitivity :	550 nm	Absolute error :	< 10 %
Signal output	0 to 2 V	Residual voltage (E = 0) :	<10 mV
Power supply :	+5 to +15 V	Nominal temperature :	22 ± 2 °C
Mounting :	2 screws, M4, in base plate	Operating temperature :	-20 to +60 °C
Cable passage :	downwards	Dimensions :	Dome diameter: 40 mm Housing diameter 80 mm Height 53 mm +10 mm (conical ring) +20 mm (dome)
Housing :	anodized aluminum	Weight :	approx. 300 g
Diffusor :	PTFE		
Dome :	PMMA		

Type (including test protocol)

Weather-resistant measuring head for measuring the illuminance including cable, 1.5 m, and ALMEMO® connector

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

Order no.

FLA633VLM

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/m ²	Cos correction:	error f2 < 3%
Spectral sensitivity:	310 to 400nm	Linearity:	< 1%
Maximum spectral sensitivity:	355nm	Absolute error:	< 10%
Signal output:	0V to 2V	Residual voltage: (E = 0)	< 10mV
Power supply:	+5V to +15V	Nominal temperature:	22°C ±2°C
Mounting:	2 screws M4, in base plate	Operating temperature:	-20°C to +60°C
Cable passage:	downwards	Dimensions:	Dome diameter: 40 mm Housing diameter 80 mm Height 53 mm +10 mm (conical ring) +20 mm (dome)
Housing:	anodized aluminium	Weight:	approx. 300 g
Diffusor:	PTFE		
Dome:	PMMA (transparent to UV)		

Type (including test protocol)

Weather-proof measuring head for measuring the UVA radiation including cable, 1.5 m, and ALMEMO® connector

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

Order no.

FLA633UVA

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. 50mW/cm ²	Cos correction:	error f2 < 3%
Spectral sensitivity:	265 to 315nm	Linearity:	< 1%
Maximum spectral sensitivity:	297nm	Absolute error:	< 10%
Signal output:	0V to 2V	Residual voltage: (E = 0)	< 10mV
Power supply:	+5V to +15V	Nominal temperature:	22°C ±2°C
Mounting:	2 screws M4, in base plate	Operating temperature:	-20°C to +60°C
Cable passage:	downwards	Dimensions:	Dome diameter: 40 mm Housing diameter 80 mm Height 53 mm +10 mm (conical ring) +20 mm (dome)
Housing:	anodized aluminium	Weight:	approx. 300 g
Diffusor:	PTFE		
Dome:	PMMA (transparent to UV)		

Type (including test protocol)

Weather-proof measuring head for measuring the UVB radiation including cable, 1.5 m, and ALMEMO® connector

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

Order no.

FLA633UVB

Star Pyranometer FLA 628 S



- Star pyranometer, according to Dirmhirm, 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 1500W/m ²	Nominal temperature:	22°C ±2°C
Resolution:	0.1W/m ²	Linearity:	<0.5% (0.5 to 1330W/m ²)
Spectral range:	0.3 to 3µm	Stability:	<1% of the meas. range per year
Output:	approx. 15mV/Wm ²	Settling time:	25s (t ₉₅)
Impedance:	approx. 35ohms	Dimensions:	160mm Ø, 75mm high, hole circle: 134mm Ø, holes: 8mm Ø
Operative range:	-40 to +60°C	Weight:	1 kg
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)		

Type (including test protocol)

Star pyranometer including 3m cable with ALMEMO® connector and programmed calibration value
Factory calibration KL90xx radiation for sensor (see chapter Calibration certificates)

Order no.

FLA628S

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