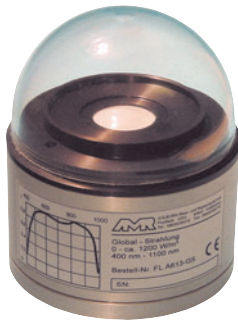


Global Radiation Probe Head Type FLA613GS



- 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.

Type (including test protocol)

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

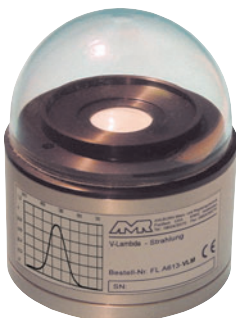
Order No. FLA613GS

Technical Data:

Measuring range:	0 to approx. 1200W/m ²
Spectral sensitivity:	400nm to 1100nm
Maximum spectral sensitivity:	780nm
Signal output:	0V to 2V
Power supply:	+5V to +15V
Mounting:	2 screws M4, in base plate
Cable passage:	downwards
Housing:	anodized aluminium
Diffusor:	PTFE
Dome:	PMMA
Cos correction:	error f2 < 3%
Linearity:	< 1%
Absolute error:	< 10%
Residual voltage: (E = 0)	< 10mV
Nominal temperature:	22°C ±2°C
Operating temperature:	-20°C to +60°C
Dimensions:	housing: 55 mm high dome 40 mm high diameter: 80 mm
Weight:	approx. 300 g

01/2005 We reserve the right to make technical changes.

Radiation measuring head Type FLA613VLM



- 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.

Types (including test protocol)

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

Order No. FLA613VLM

Technical Data:

Measuring range :	0 to 170 klux (approx. 250 W/m ²)
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
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 :	Housing : 55 mm high Dome : 40 mm high Diameter : 80 mm
Weight :	approx. 300 g

METEOROLOGY

UVA Radiation Probe Head Type FLA613UVA



- ▶ 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.

Type (including test protocol)

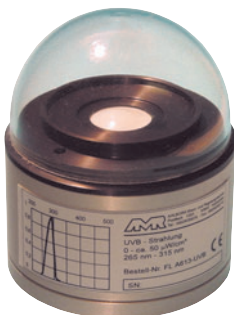
Weather-proof measuring head for measuring the UVA radiation including cable, 1.5 m, and ALMEMO® connector

Order No. FLA613UVA

Technical Data:

Measuring range:	0 to approx. 3mW/cm ²
Spectral sensitivity:	310 to 400nm
Maximum spectral sensitivity:	335nm
Signal output:	0V to 2V
Power supply:	+5V to +15V
Mounting:	2 screws M4, in base plate
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)	< 10mV
Nominal temperature:	22°C ±2°C
Operating temperature:	-20°C to +60°C
Dimensions:	housing: 55 mm high dome 40 mm high diameter: 80 mm
Weight:	approx. 300 g

UVB Radiation Probe Head Type FLA613UVB



- ▶ 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.

Type (including test protocol)

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

Order No. FLA613UVB

Technical Data:

Measuring range:	0 to approx. 50μW/cm ²
Spectral sensitivity:	215 to 315nm
Maximum spectral sensitivity:	335nm
Signal output:	0V to 2V
Power supply:	+5V to +15V
Mounting:	2 screws M4, in base plate
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)	< 10mV
Nominal temperature:	22°C ±2°C
Operating temperature:	-20°C to +60°C
Dimensions:	housing: 55 mm high dome 40 mm high diameter: 80 mm
Weight:	approx. 300 g

Star Pyranometer Type FLA628S



- Star pyranometer, according to Dirmhirn, for measuring the global radiation, the sky radiation and the short-wave radiation.
- 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.
- Delivery including a factory calibration certificate.

Type (including test protocol)

Star pyranometer including 3m cable with ALMEMO® connector and programmed calibration value

Order No. FLA628S

Technical Data:

Measuring range:	0 to 1500W/m ²
Resolution:	0.1W/m ²
Spectral range:	0.3 to 3μm
Output:	approx. 15μV/Wm ²
Impedance:	approx. 35Ω
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 1330W/m ²)
Stability:	<1% of the meas. range per year
Settling time:	25s (t95)
Dimensions:	160mm Ø, 75mm high, hole circle: 134mm Ø, holes: 8mm Ø
Weight:	1 kg

Accessories:

Shadow belt with stand

Order No. ZB9628SB

Barometric pressure Measuring connector type FDA612SA Measuring module type FDA612MA



- Compact design allows direct plug-on to measuring instruments.
- High measurement accuracy through piezo-resistive pressure sensor.
- Suitable for operation with multi-channel measuring instruments and for position-indifferent measurements at stationary installations when used with extension cable.

Accessories:

Connecting cable

for press. measuring module, 0.2m

Extension cable, 2m long

Extension cable, 4m long

Order no. ZA9060AK1

Order No. ZA9060VK2

Order No. ZA9060VK4

Type:

Barometric pressure

Measuring connector

Measuring module

Order No. FDA612SA

Order No. FDA612MA

Technical Data:

Measuring range:	700 to 1050 mbar (total range 0 to 1050 mbar)
Accuracy:	±0.5% (typ. 0.1%) of fin. val.
Nominal temperature:	22°C ±3K
Overload capacity:	max. 2-fold measuring range
Air humidity:	10 to 90% non-condensing
Temperature drift:	max. 1% of final value (typ. ± 0.6%)
Dimensions:	
Measuring module	37 x 36 x 22mm
Measuring connector	90 x 20 x 7.6 mm
Hose connection:	Ø 5mm, 12mm long
Sensor material:	aluminium, nylon, silicone, silica gel, brass

new!

01/2005 We reserve the right to make technical changes.

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