



Kipp & Zonen CGR4 Pyrgeometer

Product #: 0363900
USD Price: Contact Hach

CGR4 pyrgeometer is an instrument for the highest quality scientific measurements. The specially designed meniscus dome provides a 180° field of view with negligible directional response error. A hard-carbon coating on the outside of the dome smoothes the spectral response and provides extra protection to the silicon surface. The excellent thermal stability of the dome construction and coupling to the instrument body eliminates the need for dome temperature measurements or dome shading. CGR4 can be fitted with the CVF4 ventilation unit to further improve its performance. A waterproof socket is fitted for the signature yellow signal cable, which is available in a range of lengths pre-wired to the waterproof plug. The integral bubble level is raised to the top of the housing and can be viewed without removing the redesigned snap-on sun shield, which also covers the connector. The connector with gold-plated contacts allows for easy exchange and re-calibration. The screw-in drying cartridge is easy to remove and the replacement desiccant is supplied in convenient refill packets.

Best scientific pyrgeometer currently available

Low temperature dependancy, very low window heating.

Low maintenance

Weather and UV proof cable and connector, reliable all weatherproof performance.

Ideal for low power / remote applications

CGR4 requires no power and is ideal for battery powered loggers.

Smart output

Calculated LW downward radiation output.

Specifications

Ambient Temperature:	-40 - +176 °F (-40 - +80 °C)
Analog Output:	Yes
Analog Outputs:	-5 - 5 mV
Analogue Ouput Signal:	-5 - 5 mV
Cable Connection:	8 pin plug
Cable Length:	33, 82, or 164 ft (10, 25 or 50 m)
Definiton of Measured Values:	Long-wave atmospheric radiation
Digital Outputs:	N.A.
Dimensions:	Ø 5.9 in (150 mm), H 3 in (76.6 mm)
Field-of-View:	180 °

Housing Material:	Anodised aluminum
IP Rating:	IP67
Measuring Range:	4.4 - 50 μm
Non-linearity:	# 1 %
Non-stability:	# 1 %
Operating Humidity:	0 - 100 %
Operating Temperature Range:	-40 - +176 °F (-40 - +80 °C)
Power Consumption:	none
Power input:	none
Response Time:	# 18 s
Sensitivity:	5 - 15 $\mu\text{V/W/m}^2$
Temperature Dependence of Sensitivity:	# 1% (-4 °F - +122 °F)
Temperature Range:	-40 - +176 °F (-40 - +80 °C)
Weight:	1.3 lbs (0.6 kg)
Zero offset A:	< 4 W/m^2
Zero offset B:	< 2 W/m^2