

Global Radiation Sensor (Pyranometer) [Weather Station]



Attention:

The Global Radiation Sensor (Pyranometer) is part of the [Weather Station](#).

Summary

The ventilated pyranometer attached to the crow's nest measures the global radiation, which is the solar radiation imprinted on a horizontal area on the earth surface.

Manufacturer	Kipp und Zonen
Model	Pyranometer SMP21
Serial No.	n/a
Type	meteorological package
REGISTRY-Link	REGISTRY (1415)

SMP21 Pyranometer



Contacts

Name	Institution	Role
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Position

Info	xyz-position from Alignment Survey Report RV Polarstern (June 2016), located on mast platform
X	71.698 m (X-0 is at the center of der rudder (ref. design drawing of the vessel), positive X-axis is forward and along vessel centerline)
Y	-1.724 m (Y-0 at centerline, positive Y-axis is portside)
Z	43.408 m (Z-0 is set to the lowest point of the keel, positive Z-axis is upwards)

Parameters

Parameter	O2ARegistry Output Type	Unit
global radiation	global radiation	W/m2
direct radiation	direct radiation	W/m2

Documentation

- [SMP Series Instruction Sheet \(User Manual, 3 MB\)](#)
- [Kipp and Zonen Smart Pyranometers Manual \(User Manual, 3 MB\)](#)