# **Neutron Monitor**



Attention:

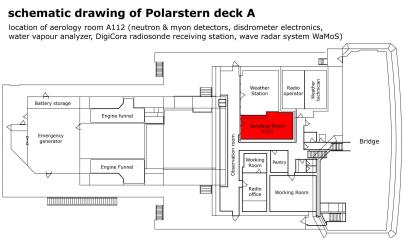
Please note: The system works autonomously and needs minimum attention. Scientific co-use by Desy Zeuthen. Data transfer once per day.

## Summary

Neutron monitors are ground-based devices to measure the variation of cosmic ray intensities. The instrument is a counter designed to detect nucleonic components of cascades initiated by primary cosmic particles in the atmosphere.

Manufacturer	Northwest University, Potchefstroom, South Africa	
Model		
Serial No.	n/a	
Туре	small scale facility	
REGISTRY-Link	REGISTRY (1433)	





### Contacts

Name	Institution	Role
Bernd Heber	Christian-Albrechts-University Kiel	Principal Investigator

### Components

#### Position

Info	no xyz-position given, device located in A112
X	0.0 (no unit given) (no description given)
Y	0.0 (no unit given) (no description given)
Z	0.0 (no unit given) (no description given)

### Data logging, storage and archiving

#### Logged parameters

Parameter	O2ARegistry Output Type	Unit
amount of cosmic particles	amount	number

#### Central geographical ship's position and time standard

#### Rawdata storage on board

#### Data archiving on land

#### Documentation

- NeutronMonitor\_manual (User Manual, 2 MB)
- Mini Neutron Monitors at Concordia Research Station, Central Antarctica (Article, 2 MB)
- A calibration neutron monitor Statistical accuracy and environmental sensitivity (Article)
  The paper describes the characteristics of a pair of calibration neutron monitors that were developed to intercalibrate the count rates of the worldwide neutron monitors against each other.
- A calibration neutron monitor Energy response and instrumental temperature sensitivity (Article)
- First Results of a Mobile Neutron Monitor to Intercalibrate the Worldwide Network (Article)
- · Mini neutron monitor measurements at the Neumayer III station and on the German research vessel Polarstern (Article, 956 kB)