



Intercomparison of integrating nephelometers Project No.: IN-2018-3-4

Basic informations:

Location of the quality assurance: TROPOS, Lab 121
Date: 22 October - 26 October 2018

Principal Investigator	Home Institution	Participant	Instrument
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1 Intercomparison summary

Status on arrival

The device was a little dirty on the outside. The protective cap for the PMT was loose, possibly due to transport. The device permanently indicates an error that the backscatter signal is too high, which can be an indicator that the light trap and/or other components are massively dirty. This error leads to a permanent fail safe function and the data communication is disturbed. Therefore no data could be recorded and analyzed.

Zerocheck

No information can be given.

Spancheck

No information can be given.

Inspection

The device was very dirty, especially with a brown sticky substance in the measurement cell. The measuring cell was cleaned, but the error was not corrected. A deeper cleaning and maintenance was not carried out.

Comparison to reference nephelometer

No information can be given.

Recommendations

The device must be repaired.

Overall assessment

Due to the defective device no assessment can be given.