

## Calibration

The partector knows its calibration date and will display a gentle reminder that the calibration is outdated if the calibration is older than one year. However, it is likely that your instrument does not need a calibration, since the partector is an extremely robust instrument. Instrument aging is related to both use time and amount of dirt sampled by the instrument, and if your instrument has not seen heavy use, it is likely that it still works fine.

Please complete the following steps to decide whether you should have your instrument recalibrated:

- 1) If you have seen frequent warnings on the display, the device should be serviced anyway. Send it back for calibration (see instructions at the end of this document).
- 2) If you have not seen any warnings, read out operation time and LDSAmin value from the device (on the info screen). If the “Minutes” value is < 45’000 and the LDSAmin value is < 5’000’000, then in general your device should be fine, and we do not recommend a recalibration.

If you have access to other instruments, you can also perform the following checks:

- 3) If you have a flow meter, check if the internal pump is still drawing 0.5 +/-0.05 lpm (volumetric flow). If not, contact naneos.
- 4) If you have a DMA+CPC, you can check whether the LDSA value displayed by the partector for 50nm particles is approximately 400x lower than the CPC display in pt/ccm. If it is “far” away from that value (25% or more), send the device back for calibration.

The calibration for the partector alone costs 690.- CHF + taxes + shipping costs, for the partector2 990.- CHF + taxes + shipping costs. If any service operations are required (e.g. a pump exchange), additional costs apply depending on the complexity of the service required.

Devices should be shipped back to naneos directly. Please contact us for details on shipping arrangements by email under [info@naneos.ch](mailto:info@naneos.ch) .