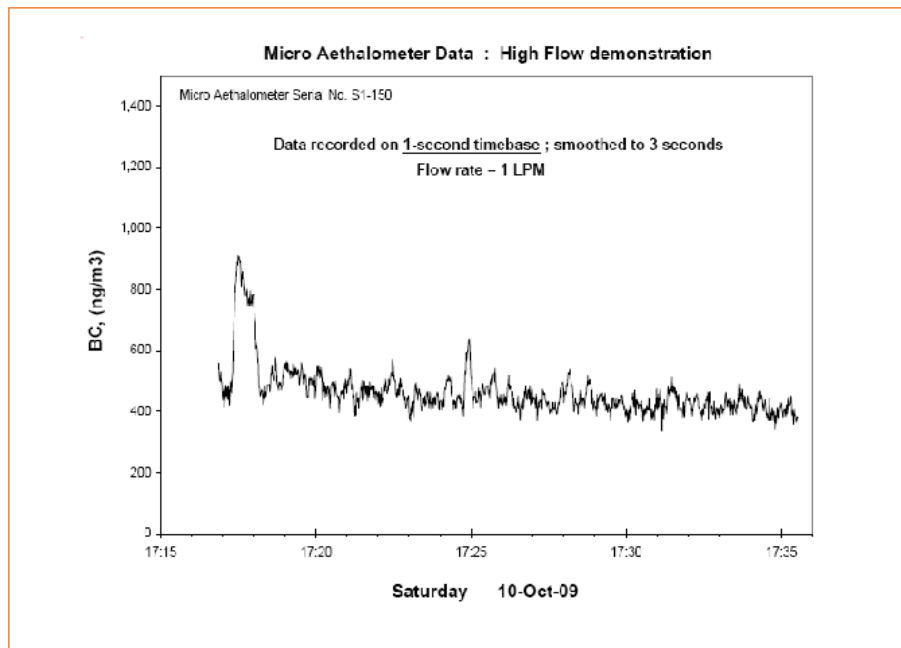


Overview

A high flow accessory kit is now available for the Model AE51 "Micro" Aethalometer. The high flow option increases the maximum flow rate to 1 lpm, providing an approximate 7x increase in the sensitivity of the instrumental measurement. The standard sample flow rate range for the Model AE51 instrument using its internal pump is 50 - 150 ml/min. The 1 lpm flow rate, combined with the small sample spot and short time resolution, provides excellent data quality for applications requiring one-second measurement response. The increased performance is also advantageous when measuring Aerosol Black Carbon at very low concentrations or at very remote locations.

Applications for AE51 High Flow Configuration Option Include:

- **Vertical profiling** of atmospheric light absorbing carbon particulate matter
- **Short-term exposure monitoring** with one-second time resolution
- **Low concentration monitoring** of black carbon aerosols in rural or remote locations



Basic Specifications for Model AE51 High Flow Accessory:

- Adaptable to existing microAeth Model AE51 instrument
- Add-on accessory pack is plug and play; no internal hardware changes necessary
- Kit includes: External pump / battery pack, plumbing and recharging cable
- Flow rate to 1 lpm
- Total weight of approximately 500g (1 lb), including microAeth instrument
- Measurement sensitivity approximately +/- 300 ng/m³ at 1-second time base



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