

Portable Black Carbon Monitor SCAB

Real-time sample collection and analysis of
Aerosol Black Carbon mass concentration in air



Applications

- ❖ Epidemiology research
- ❖ Climate change and visibility research
- ❖ Workplace monitoring
- ❖ Engine exhaust and combustion source monitoring
- ❖ Ambient measurements



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Specifications

Measurement Principle

Real-time sample collection and analysis of Aerosol Black Carbon mass concentration in air using optical Absorption method

Optical source

880nm wavelength(IR) LED

Measurement range

0 to 1 mgBC/m³

Measurement resolution

0.001 µg BC/m³

Measurement time base (User setting)

1, 10, 30, 60, 300 sec

Flow rate (user setting)

50, 100, 150, 200 mL/min

Data logging

8GB flash memory

Communications

USB & Wi-Fi Connectivity to Windows®based PC with SCAB software

Data output

Logged files are output to SCAB software and stored in .txt file format

PC software

SCAB software is included. Provides visual interface including real-time BC mass concentration values and graphing

Consumables

Teflon-coated borosilicate glass fiber filter

Dimensions

110 (L)x 64(W) x 35(D) mm

Weight

280 g

Operation environment

0 to 40 , non-condensing

Power

3.6VDC rechargeable lithium-ion battery

Power supply adapter

Input : 100 to 240VAC/ 50 to 60 Hz/0.2A

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Accessories

Filter Tickets



Miniature
Aerosol Dryer

