

BC 1060

Black Carbon Monitor

Our **BC 1060** dual wavelength (880 and 370 nm) portable black carbon monitor allows rapid apportionment of fossil fuel combustion and biomass burning sources of carbonaceous particles. The combination of portability and small footprint permits rapid, easy deployment on a broad scale.

Operating with a filter tape load correction at a continuous sampling rate of 2 LPM, up to 6 months of uninterrupted operation between filter tape replacement may be expected. The built-in flow dilution system may reduce the required frequency of tape replacement by as much as five times, which is a particularly useful feature for operation in highly polluted environments.

The **BC 1060** is self-contained within its own weatherproof enclosure containing its pump, making it ideal for quick deployment. It is compatible with our AIO 2 all-in-one sonic weather station. It may be operated indoors or outdoors, and powered by either mains or batteries.



Applications

- Ambient Air Quality Monitoring
- Environmental Monitoring
- Public & Workplace Monitoring
- Smart Cities
- Tunnel Monitoring
- Climate Research
- Emergency Response

Specifications

Measurement Principle:	Dual Wavelength Optical Absorption
Illumination Wavelengths:	Near Infrared (880 nm LED) & Ultraviolet (370 nm LED)
Measurement Range:	10 ng/m ³ - 100,000 ng/m ³
Data Display Resolution:	0.1 ng/m ³
Limit of Detection (2σ):	≤ 50 ng/m ³ with 1 minute sample time, ≤ 8 ng/m ³ with 1 hour sample time
Measurement Interval:	1, 5, 10, 15, 30, or 60 minutes
Flow Rate:	2 LPM
Pump Type:	Internal DC Powered Pump
Filter Tape:	Reinforced Glass Fiber
Power Supply:	12 VDC 8.5A output supply included (100–240 VAC 50/60Hz input)
Ambient/Operating Temp:	-20° to +50° C
Ambient Humidity Range:	0 to 90% RH non-condensing
Internal Data Storage:	4 MB internal memory (108,134 data records)
Data Collection Interface:	Single serial output through either RS-232 or USB (1200 to 115200 baud), USB Flash Drive Port for data download
Compatible Software:	Comet™ software
User Interface:	Menu-driven interface with 4x20 character back-lit OLED display and dynamic keypad
Inlet:	PM _{2.5} or PM ₁ Cyclonic Separator
Unit Weight:	Approximately 35 lbs (16 kg)
Unit Dimensions:	Height: 30.5 cm Width: 35.6 cm Depth: 36.8 cm



POWERED BY ACOEM

1600 NW Washington Blvd. Grants Pass, OR 97526, USA

Phone: +1-541-471-7111

Sales: sales.moi@acoem.com

Service: service.moi@acoem.com

metone.com

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