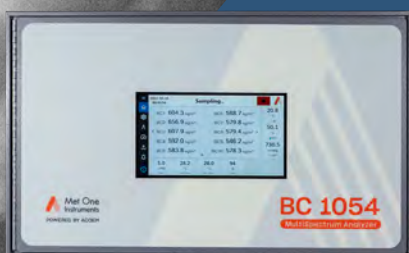


Clearing the Air

Black Carbon Monitoring Solutions



Advanced Solutions for Tracking Black Carbon

Black Carbon (BC), also known as soot, is a highly impactful pollutant emitted from incomplete combustion processes like burning fossil fuels, biomass, and waste. Not only does black carbon pose significant risks to respiratory health, but it also contributes to climate change and negatively affects air quality on both local and global scales.

Our black carbon monitoring solutions help you take control of black carbon emissions. This empowers you to make informed decisions and implement effective strategies for reducing this potent pollutant. Join us in fostering a cleaner and healthier future by monitoring Black Carbon sources, concentrations, and trends. Take the first step towards a more sustainable tomorrow.



Multiwavelength carbon monitoring & analysis



Research-grade, robust, dependable instruments



Connect & share real-time, load-compensated data



Protect public health & safety



Weatherproof enclosure & solar powered



Rack-mounted or portable/remote options

BC 1054

Black Carbon Analyzer

The BC 1054 is a multi-wavelength black carbon analyzer which offers a dependable and cost-effective solution for collecting research-grade data of atmospheric carbonaceous matter. It measures light transmittance across a filter media, where the particles accumulate, at ten different wavelengths between the UV and IR part of the spectrum. This allows an in-depth characterization of the collected particles, probing deep enough into their origin and history.

Key Features

- Built-in filter-loading correction algorithm
- Measures light transmittance at 10 wavelengths (UV to IR)
- Real-time remote data access without an external logger
- Ultra-high sensitivity, detecting concentrations as low as 1 ng/m^3
- Robust design with automatic calibration
- Active flow control
- Optional flow dilution system for high concentration environments
- Large internal data storage and intuitive user interface





BC 1060 and BC 1065 Portable Black Carbon Monitors

Our BC 1060 and BC 1065 portable Black Carbon monitors measure and report Black Carbon concentrations, with user-selectable time resolution down to one minute, at both UV (370 nm) and IR (880 nm) illumination wavelengths. The combination of portability and dual-wavelength illumination permits rapid, easy deployment on a broad scale for source apportionment determination (fossil fuel vs. biomass combustion), roadside monitoring, and emergency responder applications. The BC 1060 and BC 1065 can continuously sample for up to 6 months with a single roll of filter tape.

- Two channels - UV 370 nm & IR 880 nm
- CCS COMET cloud plus+ compatible
- Built-in flow dilution system for high concentration environments
- Self-contained weatherproof enclosure (BC 1060)
- Rack-mounted (BC 1065)
- Up to 6 months of operation per tape roll
- Highly portable - 35 lbs./16 kg (BC 1060)
- Filter tape load correction

The BC 1060 (shown) is a stand alone instrument and may be set up in a matter of a few minutes on the optional stand (shown) or on a user-provided platform. The BC 1065 is a rack-mounted version of the BC 1060 and is useful for applications where an existing shelter is available.





C-12 Portable Black Carbon Monitor

The C-12 is a portable, self-enclosed, weatherproof dual-wavelength carbon monitor that measures black and brown carbon at 880 nm and 370 nm. It offers high sensitivity, detecting concentrations below 70 ng/m³ at 1-minute intervals. C-12 allows for highly granular measurement of black and brown carbon at an unbeatable total cost of ownership.

The C-12 is compatible with data loggers and supports real-time cloud communication. With low power consumption and long filter tape life, it's a durable and cost-effective solution for precise carbon tracking.

Applications

- Air quality surveillance
- Global climate change studies
- Particulate emission studies
- Visibility studies
- Climatology research
- Source apportionment determination
- Angstrom absorption exponent determination

Key Features

- Filter tape load correction
- Ultra-low power consumption
- Long filter tape life with 500 advances per roll
- Multiple mounting options (pole, wall, tripod)
- Time-tested, durable technology with precision measurements



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