

BC 1060 Black Carbon Monitor



The Met One Instruments, Inc. BC-1060 portable black carbon monitor measures and reports 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 (fossil fuel vs. biomass combustion) determination, roadside monitoring, and emergency responder applications. The BC 1060 employs a standard tape measurement system using a 25-m long roll of glass-fiber tape. Operating at a continuous sampling rate of 2 LPM, up to 6 months of uninterrupted operation between filter tape replacement may be expected. The BC 1060 is self-contained within its own weatherproof enclosure containing its pump, making it ideal for quick deployment. It may be operated indoors or outdoors. For operation in highly polluted environments the BC 1060 is supplied with a flow dilution system which may extend the required frequency of tape replacement by up to a factor of five.

The BC 1060, all inclusive, weighs approximately 35 lb. (16 kg) and has a small footprint making it easy to transport. It may be operated from either household power or may be battery powered.







Applications:

- Air Quality Surveillance
- •Rapid Source Apportionment Determination
- Saturation Studies
- Emergency Responder Applications

- Particulate Emissions Studies
- Near-Roadside Monitoring
- Climatological Studies

Measurement Principle: Measurement Range:

Data Display Resolution:

LDL (2**o**):

Measurement Interval:

Flow Rate:
PumpType:
Filter Tape:

Power Supply:

Ambient/Operating Temperature: Ambient Humidity Range: Internal Data Storage: External Data Storage: Data Collection Interface:

Compatible Software: User Interface:

Inlet:

Unit Weight:

Deployed Dimensions:

Dual Wavelength Optical Absorption.

Near Infrared (880 nmLED) for elemental carbon.

Ultraviolet (370 nmLED) for elemental and organic carbon.

<1 ng/m³ to >100,000 ng/m³ (effective)

0.1 ng/m³

<8 ng/m³ with 1 minute sample time <1 ng/m³ with 1 hoursample time 1,5,10,15, 30, or 60 minutes.

2 LPM

Internal DC Powered Pump Reinforced glass fiber

12V DC. Universal 100-240VAC 50/60Hzinput,

12 VDC 8.5A output supply included

-50°Cto +70°

0 to 90% RH, non-condensing

4 MB internal memory. 108,134 data records

One USB Flash Drive Port

Single serial outputthrougheither RS-232, USB, or

Ethernet port. 1200 to 115200 baud.

Comet™ software and USB/Ethernet driver CD included

Menu-driven interface with 4x20 character backlit LCD display and

dynamic keypad

PM₂₅ or PM₁ cyclonic separator, 2 LPM flow rate

Approximately 35 lbs (16 kg)

Height: 30.5 cm Width: 35.6 cm Depth: 36.8 cm

Specifications are subject to change at any time.







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