



FLIR Airtec™ DPM Series

**Wearable, Real Time DPM / EC Monitor
Replicates NIOSH 5040**

The Airtec Diesel Particulate Monitor (DPM) from FLIR displays elemental carbon levels in real time, taking the measurement out of the laboratory and placing it in the hands of the mine operator/ventilation engineer. Sensitive, rugged and easy-to-use, the Airtec monitor provides results that are time-and-space-resolved. This capability enables rapid modification of vehicle use, personnel placement and mine or building ventilation. The monitor uses technology developed by the diesel particulate group at the NIOSH Pittsburgh Research Laboratory and has been determined to precisely replicate results from their method 5040 test.

Product Features

- Lightweight, portable, and rugged design
- Large LCD display with backlighting
- Wearable by miners on a belt loop or vehicle/wall mounted
- High sensitivity to DPM
- Contains a flow-selectable air pump
- Equivalent results to NIOSH method 5040
- Long battery life operation (>12hr continuous use) or AC power

Benefits

- Real time results — No more waiting days or weeks for results
- Decreased DPM monitoring costs
- Helps prevent MSHA non-compliance
- Increased miner safety
- High DPM level alarms
- Enables VOD and engineering control evaluation
- Bolsters confidence in a healthy environment

Operational Advantages

- No filters to send to an outside lab where all measurements are done on the instrument
- Easy-to-use, self-explanatory interface
- Verifies effectiveness of ventilation
- Generates dozens to thousands of EC concentration values for less than a single NIOSH 5040 test
- Can connect to a data network via optional 4-20 mA output
- Specifically detects DPM (via EC measurements); no sensitivity to common mine interference

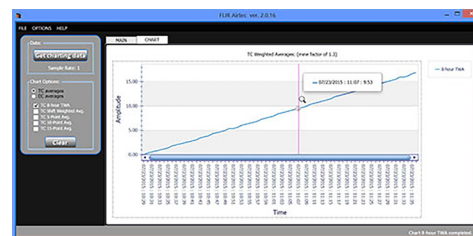


Lightweight and wearable on a belt loop

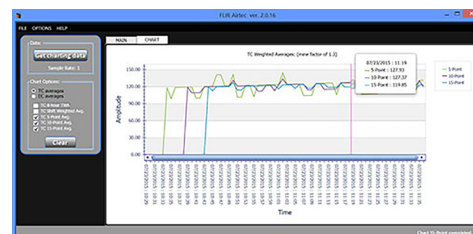
| Specifications | |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensitivity | < 15 µg/m3 elemental carbon (EC) |
| Dynamic Range | 9-600 µg/m3 (8hr TWA EC) |
| Data Archive | 2.75 to 66.6 days (1 min. to 1 hr sample intervals) |
| Output | LCD display with user-controlled backlight; User selectable 1, 5, 15 min. averaging EC and TC data logged 8 hr TWA DPM levels; Mini-USB connection; Optional 4-20 mA output |
| Alarms | LCD alerts user of Low battery, Filter change, and Pump flow |
| Power | 7.4 VDC (built-in Li-ion rechargeable battery); 100 - 240V AC adaptor |
| Battery Life | >12 hrs (continuous use) |
| System Weight | 1.5 lbs (681g) |
| Dimensions | 4.75"(H) x 5.25"(W) x 2.5"(D) / 12.1cm(H) x 13.3cm(W) x 6.4cm(D) |

Airtec Software

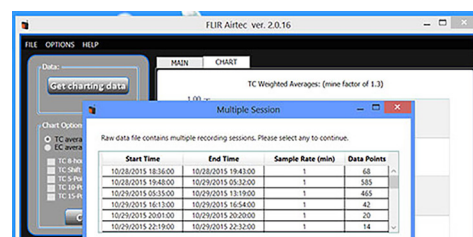
- Windows compatibility
- Sorting of multiple recorded sessions
- Full Graphing capabilities for both Elemental and Total Carbon measurements:
 - 8 hour TWA
 - Shift-weighted TWA
 - 5, 10, and 15 sample point Average
- Adjustable Mine Conversion Factor for converting Elemental Carbon measurements to Total Carbon (NIOSH 5040 test required to determine Conversion Factor)
- Adjustable Flow Rater



8 Hour Time Weighted Average



5, 10 and 15 point Running Averages



Sorts Multiple Sessions



Includes Airtec monitor, inlet prefilter assembly, five filter cassettes, two prefilter cartridges, USB to mini-USB PC cable, rechargeable battery with 9V/2A Universal AC adaptor (100-240VAC)

| Ordering Information | |
|----------------------|-----------------------------------------------------------------------------|
| 350-10595 | Airtec Elemental Carbon Monitor |
| 350-10605 | Airtec Elemental Carbon Monitor, 4-20mA |
| ATC-01-A | Airtec Filter Cassette |
| ATC-02-B | Airtec Prefilter Cartridge |
| ATC-03-KIT. | .Airtec Filter/Prefilter Kit (3 Filter Cassettes and 1 Prefilter Cartridge) |
| ATC-04 | Airtec Inlet Prefilter Assembly |
| ATC-03-KIT-1MO | Airtec Consumable Kit* (1 Month Supply) - 30 Cassettes & 10 Cartridges |
| ATC-03-KIT-3MO | Airtec Consumable Kit* (3 Month Supply) - 90 Cassettes & 30 Cartridges |

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