



ExhaustTrak™

Direct Raw Exhaust Mass Flow Meter

Discover the Benefits of Direct, In-Situ Exhaust Measurement with ExhaustTrak:

- ▶ Provides accurate, real-time exhaust mass results, eliminating need for chemical mass balance methods
- ▶ Resolves temporal offset & instantaneous emissions error contributions vs. intake mass sources through direct measurement at emissions sampling zone
- ▶ Rugged, accurate, & fast – excellent for transient & steady-state testing
- ▶ Innovative sub-sonic venturi technology (patent pending) with porous media as the pressure interface provides the following benefits:
 - Reduced straight length requirements
 - No plugging issues
 - Fully averaged radial pressure sampling
- ▶ Meets or exceeds US EPA 40 CFR Part 1065 requirements & recommendations
- ▶ Fuel H/C input, direct O₂ measurement capability allows for increased accuracy with real-time exhaust molar weight compensation
- ▶ Proportional analog signal output for PM sampling devices such as BG3 PFD & AK digital communication for host integration

ExhaustTrak = Flexibility:

- ▶ Application examples:
 - Raw exhaust
 - CVS diluted exhaust
 - Combustion air
 - Crankcase fumes
 - Process measurement
 - & More!
- ▶ Wide range of flow rates standard, greater ranges with customization

Venturi Size – 1-8" OD Standard	Absolute Pressure: up to 200 kPa Standard 90% of pressure differential recovery rate
Temperature: up to 850°C Standard	Maximum Flow Rates (500°C, 1 atm): 50 kg/hr – 6000 kg/hr Standard

ExhaustTrak is designed to satisfy customer requirements for a rugged, accurate and fast solution for direct raw exhaust mass flow measurement. The mass flow meter is specifically designed for transient cycle flow rate measurement.

Combining Sierra's BG3 Elite with the ExhaustTrak Direct Raw Exhaust Flow Meter results in a major breakthrough. Working together as a "Dynamic Duo," the BG3 Elite and ExhaustTrak are a technically equivalent, commercially available full flow CVS system replacement for both partial flow PM and raw or dilute gaseous emissions sampling methods for Light Duty.

The BG3 Elite provides accurate and repeatable Partial Flow Dilution (PFD), but it needs ExhaustTrak to resolve temporal and dispersion flow rate offsets versus intake air by measuring real time mass flow at the emissions sampling zone.

Learn more at www.sierra-cp.com/dynamic-duo

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