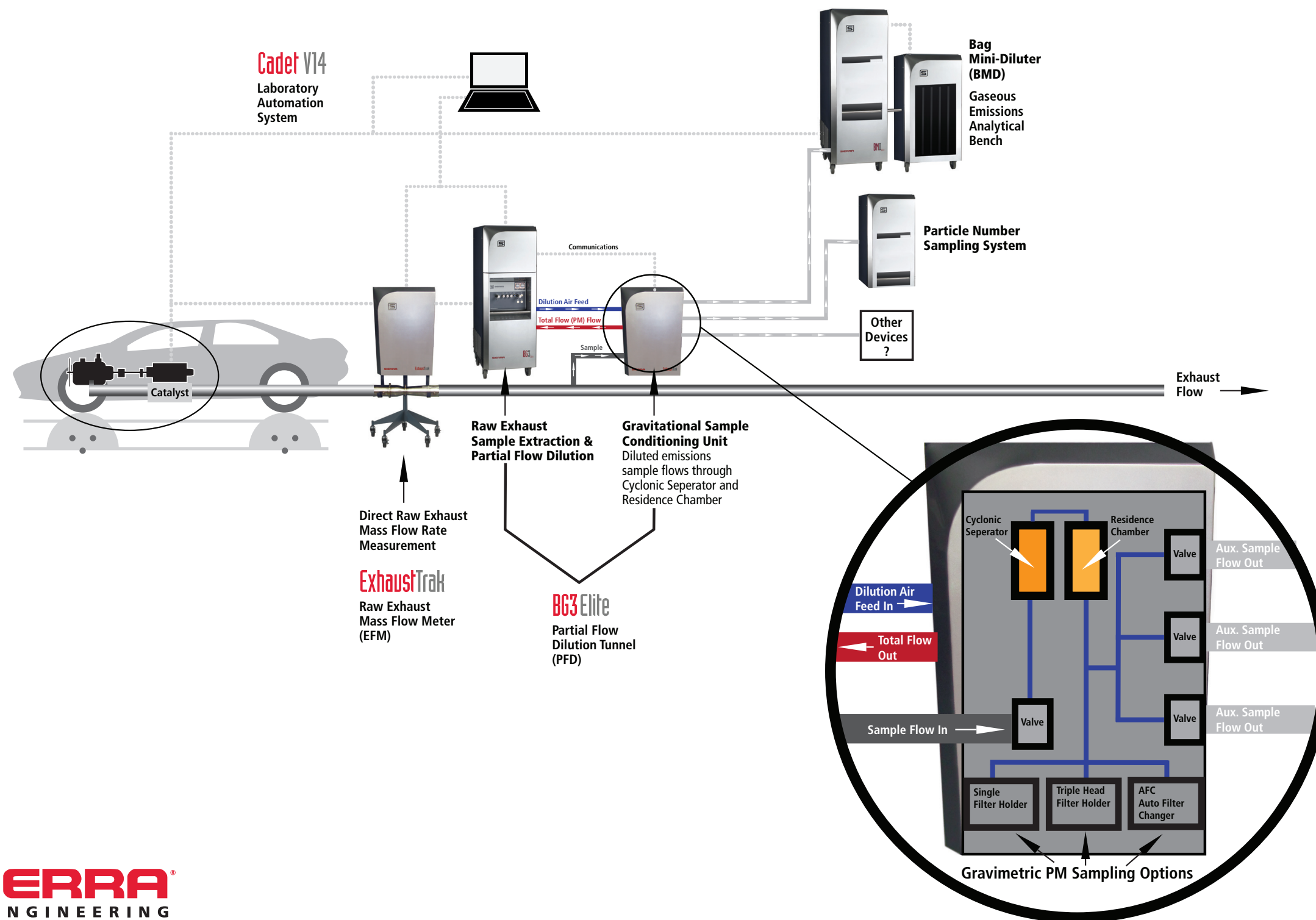


Light Duty Engine & Vehicle Test

PARTIAL FLOW-ENABLED EMISSIONS MEASUREMENT ALTERNATIVE TO CVS



The Dynamic Duo

When the BG3 and ExhaustTrak work together, great things happen. BG3 provides the 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.

The ExhaustTrak mass flow rate signal enables improved PFD proportional sampling, produces output in engineering units to the host, meets 1065 accuracy and linearity requirements, and has a fuel H/C input while direct O2 measurement allows for real-time exhaust molecular weight compensation.

Total Solution

By using the BG3 Elite and ExhaustTrak in place of CVS, many opportunities arise. Auxiliary sampling systems can tap into the diluted emissions sample flow. The diagram to the left shows a Bag Mini-Diluter and a Particle Number sampling system attached. Many other devices can be plugged into the sample feed as needs change in the future.