



Real-time Measurement of Vehicle/Engine Exhaust Flow

EXFM-ONE employs an ultrasonic method for measuring exhaust gas flow rates directly from a vehicle or engine.

The unit can be used for various applications such as real time mass measurement of raw exhaust gas combined with MEXA-ONE (Motor Exhaust Gas Analyzer), or for Particulate Matter/emission measurement combined with partial flow dilution system such as MDLT (Partial Flow Dilution Tunnel) or BMD (Bag Mini Diluter).

Fuel consumption evaluation is also available when EXFM-ONE is paired with an optional air-to-fuel ratio (AFR) analyzer.

- Wide range of flow measurement : 0 m³/min to 10 m³/min
- Fast Response : Less than 0.5 seconds t₁₀₋₉₀ response
- Integrated into HORIBA ONE PLATFORM or connected to host computer



HORIBA ONE PLATFORM

HORIBA ONE Series measurement devices such as MEXA-ONE and EXFM-ONE employ the newly developed software platform "HORIBA ONE PLATFORM". The new platform enables the user to manage measurement and quality check results of EXFM-ONE and other devices on one single display. This single user interface increases efficiency and optimizes user control over the entire testing process.





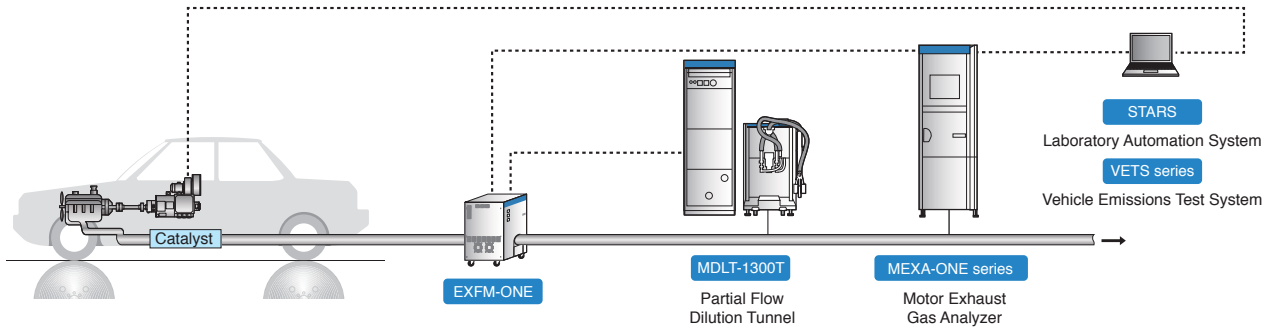
EXFM-ONE Applications

Real-time Mass Emission Measurement of Medium / Light-duty Engines

- Engine and catalyst behavior analysis during transient test cycles

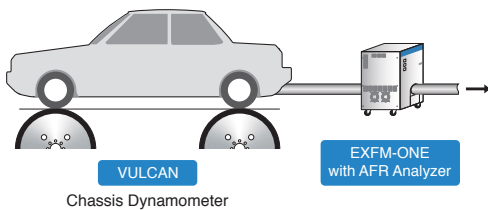
PM Measurement of Medium / Light-duty Vehicles using MDLT

- Flow control of partial flow sampling system such as MDLT at vehicle test

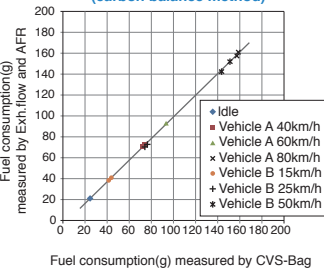


Easy and Instantaneous Fuel Consumption Measurement

- Real-time fuel consumption measurement of vehicles with an optional air-to-fuel ratio (AFR) analyzer

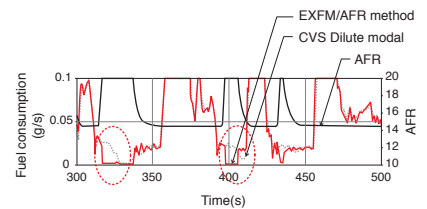


Correlation with CVS-bag measurement (carbon balance method)



• Excellent correlation from idling to high speed driving

Example of real-time fuel consumption measurement (comparison with dilution sampling method)



• Rapid response after fuel shut-off operation



Please read the operation manual before using this product to assure safe and proper handling of the product.

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