

The MEXA-1170HFID is a single component measurement system that measures total hydrocarbons with a heated flame ionization detector. With the sampler and control unit cleverly incorporated into its compact case, the MEXA-1170HFID is both easy to install and simple to operate. It's suitable for a variety of applications such as automotive engine emissions including alcohol, LPG and CNG and evaporative engine from Sealed Housing for Evaporative Determination (SHED).



Features

- **Compact and user-friendly design**

Convenient stand-alone operation and replaceable built-in heated filter with one-touch

- **Reliable and accurate measurements**

Detector based on FID employed in MEXA-ONE series, which proven reliability and accuracy

- **Extremely wide measuring range**

14 selectable ranges from 0-10 ppmC to 0-200,000 ppmC for a variety of applications

*Some additional equipment, options and settings are needed for some applications.

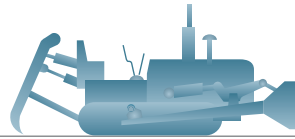
Applications



• Gasoline and diesel engines • Alcohol, LPG, CNG and other alternative fuel engines



• Motorcycle engines



• Multi-purpose engines



• Silded Housing for Evaporative Determination (SHED)

Specifications of MEXA-1170HFID

Principle	Flame ionization detection (Heated)
Ranges	THC from 0-10 ppmC to 0-200,000 ppmC (Max 14 ranges) ^{*1}
Outputs	Monitoring on LCD panel, Digital input-output (RS232C)
Sample line temperature	113 ± 8°C or 191 ± 10°C ^{*2} (depends on sample gas condition, to be specified when ordering)
Sample gas flow rate	Approx. 2 L/min
Response time (t₉₀)	Within 1.5 s (by switching zero line and span line for calibration)
Warm-up time	Within 2 hours after ignition at detector
Power supply	115 V (±10%) AC, 60 Hz, single phase, 120 V (±10%) AC, 60 Hz, single phase 230 V (±10%, max. 250 V) AC, 50 Hz, single phase, to be specified when ordering
Power capacity	Approx. 3 kVA
Dimensions	464 (W) × 652 (D) × 185 (H) mm
Mass	Approx. 25 kg
Environment	Ambient temperature : from 5 to 40°C, Ambient humidity : under 80% as relative humidity
Options	Heated filter, Heated tube ^{*3} , Temperature controller, Analog output, Leak check function, Cart

*1 The guarantees described in this specification are applicable to the ranges between 0-10 ppmC and 0-100,000 ppmC. The range of 0-200,000 ppmC is provided only as a reference. Linearity standard for 0-200,000 ppmC range is within ±3.0% of full scale.

*2 The sample line temperature will be fixed at 113°C for alcohol fueled engine measurement and SHED measurement. The temperature must be specified when ordering.

*3 An optional heated filter is needed for measurement of gasses which contain large amounts of particulate and/or oil, e.g. exhaust gasses from direct-injection gasoline, diesel, general-purpose and 2-cycle engines. Filter elements should be checked after each measurement and replaced as needed.



The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System ISO9001, Environmental Management System ISO14001, and Occupational Health and Safety Management System OHSAS18001. We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies.



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

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