Handy, efficient all-in-one gas analysis

Perfect for engine inspection and tuning, the MEXA-584L portable gas analyzer, complies with international standard ISO 3930/OIML R99 (2000) class0 and is loaded with features to make your analysis easier and accurate. It allows you to simultaneously measure CO, HC, CO₂ (non-dispersive infrared: NDIR) and air-to-fuel ratio (AFR) or excess air ratio (λ) in idle state. It optionally measures O₂, NO, engine speed (RPM) and oil temperature (TEMP). Lightweight and compact with a clear LCD and effortless operation, it can be used as a simple measurement instrument in any work situation.

Measurement of each component during the two-speed idle test as an optional function

Lightweight (Approx. 4kg), compact and robust

Visual icon display for quick reference

- Sensitivity drop.
- Large reading fluctuation.
- The probe is disconnected.
- Filter needs replacement.
- Reading exceeds the measurable range.

RS-232C enables remote control, data acquisition and printer capability

Measuring components

- CO
- HC
- CO₂
- AFR
- λ
- O₂
- NO
- Engine speed
- Oil temperature

Easy to use than ever!

- Remote control and data acquisition available from PC by optional kit.
- Light, durable sampling tube is easy to handle and worry free.

Optional drain separator improves the ability to remove water from the sample, and protects the detector from water damage.

Explore the future
Specifications

Model: MXA-590L
Conformed standards: ISO 3930/OIML R99 (2000) Class 0 1
CE • FCC

Application: Exhaust gases in idling status from gasoline vehicle (two-wheel or four-wheel vehicle), LPG vehicle (four-wheel vehicle)

Principle:
- CO, HC, CO₂: non-dispersive infrared (NDIR)
- NOx: Amperometric method (constituent of NOx measurement)

Measured/displayed components:
- CO: 0.02 % vol to 10.00 % vol
- NO: 0 % vol to 5.000 ppm vol
- NOx: 0 % vol to 5.000 ppm vol
- Engine speed (RPM): 0 rpm to 9990 rpm
- Oil temperature (TEMP): 0 °C to 150 °C

Monitor display: LCD (black and white, 320 x 240 dots)

Input/outputs:
- Digital Input/Output: RS-232C (standard), RS-485 (option) 2
- Printer: RS-232C

Remarks:
- 1 Excluding some items. Please, contact HORIBA for the more details.
- 2 Air-to-fuel ratio (A/F) and excess air ratio (A) are calculated by the carbon balance method in standard configuration.
- In case that an optional Ox sensor is connected, the Breitlauther equation is applied for the calculation.
- 3 For optional range for HC, 20.000 ppm vol, display resolution is 2 ppm vol within the range of 0 ppm to 4.000 ppm, and 10 ppm vol within the range of 4.000 ppm vol to 20.000 ppm.
- 4 Contact HORIBA for quotation on RS-485 connection (option).
- 5 For using the analyzer with a DC power source, please connect a DC/AC inverter.
- 6 Spare gas for the performance test shall be approx. 0.5 % vol for CO, 200 ppm vol for CO₂ and 14 % vol for CO₂.
- 7 When calibration gas is attached at sampling tube, the filter and sampling probe attachment.
- 8 Repeatability is described as the standard deviation of values of measured 20 measurements.

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

The specifications, appearance or other aspects of products in this catalog are subject to change without notice.

Please contact us with enquiries concerning further details on the products in this catalog.

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