Exhaust Gas Analyzer



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INTRODUCTION

Nowadays, the internal combustion engines are one of the main polluting agents. Although the pollution values are not individually representative, they are a noxious focus when referring to all of the group. A gas analyzer allows to measure reliably the different gaseous polluting agents concentration, which are emitted to the atmosphere by a focus.

GENERAL DESCRIPTION

Measurement of the volumetric concentrations according to the procedure of nondispersiva infrared absorption. Engines selection: gasoline, butane, propane, 2/4 times, 1/2/3/4/5/6/8/12 cylinders. Fast warm-up of the measure cell. Auto-check test. Automatic and manual zeroing.

Data base of engines.

Engineering and Technical Teaching Equipment









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Measurements: Carbon monoxide, CO (%). Carbon dioxide, CO_2 (%). HC gasoline, propane, methane (ppm). Oxygen, O₂ (%). Carbon monoxide adjusted (%). Lambda factor. Oil temperature. Technical data: Power supply: 115/230 VAC - 50/60 Hz - 68 W. Measure time: 12 seconds (max.). Warm-up time: 6 minutes (from 25° C). Working temperature: from $+2 \degree C$ to $+40 \degree C$. Humidity: 95 % max. (non-condensing). Pressure: 800 - 1060 mbar. CO (+/- 0.02 % abs +/- 3 % rel): from 0 to 15 %. CO₂ (+/- 0.3 % abs +/- 3 % rel): from 0 to 20 %. HCg (+/- 4 ppm abs +/- 3 % rel): from 0 to 15000 ppm vol. HCp (+/- 8 ppm abs +/- 3 % rel): from 0 to 30000 ppm vol. O_{2} (+/- 0.1 % abs +/- 5 % rel): from 0 to 25 %. COc (+/- 1 % abs +/- 3 % rel): from 0 to 20 %. Lambda: from 0 to 9.999 rmp. Oil temperature: 0 - 200 °C. Sample gas tube length: 6 m approx. Sample gas tube diameter: 5 mm approx. USB wire to computer. Control software.

Additional recommended elements (Not included):

- TBMC3. Computer Controlled Test Bench for Single-Cylinder Engines, 2,2 kW.
- TBMC8. Computer Controlled Test Bench for Single-Cylinder Engines, 7.5 kW.
- TBMC12. Computer Controlled Test Bench for Single-Cylinder and Two-Cylinders Engines, 11 kW.
- TBMC75. Computer Controlled Test Bench for Four-Cylinders Engines, 75 kW.

DIMENSIONS AND WEIGHTS

TBMC-AGE:

- Dimensions: 600 x 200 x 300 mm approx.

(23.62 x 7.87 x 11.81 inches approx.). eight: 5 kg approx.

- Weight:

(11 pounds approx.).

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* Specifications subject to change without previous notice, due to the convenience of improvement of the product.



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