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 ↳ 90.- THERMODYNAMICS & THERMOTECHNICS

INTRODUCTION

A gas analyzer is a device used to obtain a reliable measurement of the concentration of gaseous contaminants emitted by a specific source to the atmosphere.

The Portable Flue Gas Analyzer, "PFGA", allows the user to measure the most important parameters related to flue gases. All the components required for the measurement are stored in a case, allowing an on-site immediate assembly.

GENERAL DESCRIPTION

The "PFGA" unit is a flue gas analyzer stored in a portable case. It is used to check the existence of O₂, CO, CO₂ and nitrogen oxides in the flue gases from home heating systems with simultaneous measurement of the flue gases temperature and the combustion temperature. Furthermore, the draft or pressure of those gases can also be measured.

Other variables, such as efficiency, losses of the combustion gases and excess air are calculated.

The analyzer can work with a rechargeable battery to provide power supply outdoors or connected to the mains.

The analyzer is operated through a simple and easy to understand control panel. It includes a four-line large backlit LCD alphanumeric screen.

It has a thermal printer to print measurements while the analyzer is working.

Likewise, this device includes an active memory, where the measurements and adjustments of the analyzer defined by the user are stored.

The analyzer is provided with USB and RS232 interface to transfer the measurements from its built-in memory to the computer.



ISO 9001: Quality Management (for Design, Manufacturing, Commercialization and After-sales service)



European Union Certificate (total safety)



Certificates ISO 14001 and ECO-Management and Audit Scheme (environmental management)



Certificate and Worlddidac Member

SPECIFICATIONS

Portable flue gas analyzer with metal carrying case for heating systems.

It can work either with rechargeable batteries or connected to the mains. High performance rechargeable battery for 6 hours non-stop operation.

Backlit display for good visibility in poor light applications.

Probe for flue gases with soot filter.

Condensate trap and particles filter.

Eight preprogrammed fuels and five programmable fuels.

Measurements:

Combustion temperature.

Flue gases temperature.

Residual oxygen. Range: 0 - 20.95 Vol. %.

Carbon monoxide. Range: 0 - 2000 ppm.

Carbon dioxide. Range: depends on fuel.

Nitrogen oxides. Range: 0 - 2000 ppm.

Draft pressure. Range: ± 60 hPa.

Calculation of flue gas losses. Range: 0 - 99.9%.

Calculation of the combustion efficiency. Range: 0 - 99.9%.

Excess air calculation. Range: 1.0 - 99.9%.

Manuals: This unit is supplied with the following manuals: Required Services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.

EXERCISES AND PRACTICAL POSSIBILITIES

- 1.- Measurement of the residual oxygen in flue gases.
- 2.- Measurement of the carbon monoxide and carbon dioxide.
- 3.- Measurement of nitrogen oxides.
- 4.- Measurement of the flue gases temperature and the combustion temperature.
- 5.- Combustion efficiency analysis.
- 6.- Excess air analysis.

DIMENSIONS AND WEIGHTS

PFGA:

- Dimensions: 420 x 190 x 213 mm approx.
(16.53 x 7.48 x 8.38 inches approx.)
- Weight: 7 Kg approx.
(15 pounds approx.)

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



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