

AGASTHYA 2005 series Basic O2 Analyzer

Small, low cost hand held analyzer using electrochemical sensor.

This analyzer is designed for short term measurement for all type of burners.



Measurement of gas concentrations

Standard version with one gas sensor : O2

Measurement of other parameters

Measurement of gas and ambient temperatures
Relative humidity measurement probe - optional

Calculation

CO2 concentration
Calculation of all relevant combustion parameters

Processing and presentation of measuring data

All results shown on display
Averaging of all measured values. Averaging time: 2, 10, 20, 30, 60, 120, 180 seconds

Software capabilities

Automatic zeroing when the analyzer is switched on
List of 20 common fuels
5 further freely programmable fuels

Hardware capabilities

Incredible 40 hours operating time from one set of batteries
Gas probe with thermocouple and condensate trap
RS-232C interface and multifunctional PC program
Updateable FLASH ROM program memory

Technical data

Probe length 150 mm
Length of gas line 2 m
In line filter 20 µm
LCD Display
Power supply 6 V (4 x AA) Battery
Membrane pump
Operating temperature 10 °C ÷ 50°C
Storage temperature -20 °C ÷ +55 °C

Parameter	Measuring method	Range	Resolution	Accuracy	Time (T90)
O ₂ - oxygen, volumetric concentration	electrochemical gas sensor	0..25 %	0.1 %	± 0.2% or 2% rel.	45 s
CO ₂ - carbon dioxide, volumetric concentration	calculated from volumetric concentration of O ₂	0..25 %	0.1 %	± 0.2% or 2% rel.	45 s
T _{gas} - flue gas temperature	Thermocouple	-10..1000°C	0.1 or 1°C set by user	± 2 °C or 1.5 % rel.	30 s
T _{amb} - ambient temperature	Thermistor	-10..100°C	0.1 or 1°C set by user	± 1 °C	30 s
Lambda - excess air number	calculated	1..10	0.01	0.01	
qA - combustion losses	calculated	0..100%	0.1%	0.1%	
Eta - efficiency	calculated	0..120%	0.1%	0.1%	

Bhoomi Analyzers

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