

AGASTHYA 2005 series Boiler Analyzer

Small, low cost hand held analyzer using electrochemical sensors.

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

This combustion analyzer can be fitted with up to 2 electrochemical sensors



Measurement of gas concentrations

Standard version with two gas sensors: O₂, CO

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
Storage for 16 measurements - "measure now, print later"
Powerful PC program for analyzer settings and data communication

Software capabilities

Automatic zeroing when the analyzer is switched ON
All settings for the analyzer carried out with PC program
List of 20 common fuels
4 further freely programmable fuels

Hardware capabilities

Incredible 60 hours operating time from one set of batteries
Full graphic display LCD
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 %	0.01 %	± 0.2% or 2% rel.	45 s
CO ₂ - carbon dioxide, volumetric concentration	calculated from volumetric concentration of O ₂	0..25 %	0.01 %	± 0.2% or 2% rel.	45 s
CO - carbon monoxide, volumetric concentration	electrochemical gas sensor	0..20000 ppm	1 ppm	± 5 ppm or 5 % rel.	45 s
COmg - carbon monoxide, mass concentration	calculated from volumetric concentration of CO	0...	1 mg/Nm ³	± 5 mg/Nm ³ or 5 % rel.	45 s
COrel - carbon monoxide, mass concentration relative to O ₂	calculated from volumetric concentration of CO and O ₂	0...	1 mg/Nm ³	± 5 mg/Nm ³ or 5 % rel.	45 s
Tgas - flue gas temperature	Thermocouple	-10..1000°C	0.1 or 1°C set by user	± 2 °C or 1.5 % rel.	30 s
Tamb - 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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