

Agasthya 2017 Series Portable Flue Gas Analyzer Model BI 100



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Specification:

PARAMETER	RESOLUTION	ACCURACY	RANGE
PROCESS PARAMETERS			
Flue Gas Temperature with Standard SS Probe*	0.1° C	± 2.0° C	0 - 600° C
GAS MEASUREMENT - ELECTROCHEMICAL BASED SENOR			
Oxygen (O ₂)	0.1%	± 2% O ₂	0 - 21%
CALCULATED VALUE			
Carbon Dioxide (CO ₂)	0.1%	±0.3 % of FS	0 - 20%
Efficiency	0.1%	±1 % of FS	0 - 120%
Losses	0.1%	±1 % of FS	0 - 99.99%
Excess Air	0.1%	± 0.2 %	0 - 2885%
CO/CO ₂ Ratio	0.0001%	± 0.0001%	0 - 0.9999
Poison Index	0.01%	± 0.01%	0 - 99.99%

*Inconel Probe is available for 0 - 1200° C temperature at additional price.

Features

- Automatic zeroing when the analyzer is switched ON
- All parameters programmable
- 18 common fuels with 4 extra programmable fuels

Unit Specification

- Ambient temperature : 0-50°C
- Humidity : 5-95 % rh
- Power supply : 12V/24V DC Adaptor
- Area classification : General purpose

Total Solution for Boiler Efficiency Analysis Combined with Emission Monitoring

- | | |
|----------------|---|
| ▪ Efficiency | ▪ Net temperature |
| ▪ Losses | ▪ Stack temperature |
| ▪ Excess air | ▪ Ambient temperature |
| ▪ Poison index | ▪ Derived CO ₂ & NO _x |

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Programmable Units of Measured Gas Concentration

- Gas concentrations can be displayed either in ppm or mg/m³
- Gas concentrations can be displayed either in ppm or µg/m³ on request

Data Management

- Can store up to 150 sets of data
- Auto store and averaging option for all gas concentration
- Powerful windows software for analyzer data communication
- All measured values, stored values or displayed can be printed on the external printer

Hardware Capabilities

- 32-bit Cortex-M3 ARM processor
- Rechargeable lithium ion battery 4400 with mAh
- Pump with Suction capacity of 500 mbar Absolute
- Borosilicate filter with 0.1 micron porosity
- Gas probe with thermocouple and condensate trap
- USB Communication Port

Optional Accessories

- Thermal Printer
- High Temperature Probe for temperature upto 1200 deg C. MOC Inconel

BHOOMI[®] Process Management Pvt. Ltd.
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