

## Agasthya 2013 Series Portable Flue Gas Analyzer Model BI 210



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## Specification:

PARAMETER	RESOLUTION	ACCURACY	RANGE
<b>PROCESS PARAMETERS</b>			
Flue Gas Temperature with Standard SS Probe*	0.1° C	± 2.0° C	0 - 600° C
<b>GAS MEASUREMENT - ELECTROCHEMICAL BASED SESNOR</b>			
Oxygen (O <sub>2</sub> )	0.1%	± 2% O <sub>2</sub>	0 - 21%
Carbon Monoxide (CO) (H <sub>2</sub> Compensated)	1 ppm	± 20 ppm < 500 ppm, ± 5% of FS > 500 ppm	0 - 10000 ppm
Carbon Monoxide (CO) (High Range)	0.01%	± 5% of FS	0 - 10%
<b>CALCULATED VALUE</b>			
Carbon Dioxide (CO <sub>2</sub> )	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 <sub>2</sub> 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                           | ▪ Pressure  |
| ▪ Losses       | ▪ Stack temperature                         | ▪ Velocity  |
| ▪ Excess air   | ▪ Ambient temperature                       | ▪ Flow Rate |
| ▪ Poison index | ▪ Derived CO <sub>2</sub> & NO <sub>x</sub> |             |

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### Programmable Units of Measured Gas Concentration

- Gas concentrations can be displayed either in ppm or mg/m<sup>3</sup>
- Gas concentrations can be displayed either in ppm or µg/m<sup>3</sup> 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
- Printer interface
- Borosilicate filter with 0.1 micron porosity
- Gas probe with thermocouple and condensate trap
- USB Communication Port

### Optional Accessories

- S Type Pitot Tube for Velocity measurement
- Thermal Printer
- High Temperature Probe for temperature upto 1200 deg C. MOC Inconel

**BHOOMI**<sup>®</sup> Process Management Pvt. Ltd.  
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