BHOOMI ®

Agasthya 2013 Series
Portable Flue Gas Analyzer
Model BI 210PV

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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
Pressure	0.1 mbar	± 2% of FS	± 150 mbar
Velocity	0.1 m/s	± 2% of FS	0 – 50 m/s
GAS MEASUREMENT – ELECTROCHEMICAL BASED SESNOR			
Oxygen (O_2)	0.1%	± 2% O_2	0 – 21%
Carbon Monoxide (CO) (H_2 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%
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 : 0-50ºC
- 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
- Losses
- Excess air
- Poison index

- Net temperature
- Stack temperature
- Ambient temperature
- Derived CO_2 & NO_X

- Pressure
- Velocity
- Flow Rate

Programmable Units of Measured Gas Concentration

- Gas concentrations can be displayed either in ppm or mg/m^3
- Gas concentrations can be displayed either in ppm or $\mu g/m^3$ 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

Applications

BHOOMI® Process Management Pvt. Ltd.
(Formerly known as Bhoomi Analyzers)

Head Office :
409, 4th Floor, Avior (Nirmal Galaxy),
Next to Deep Mandir, Opp. Johnson & Johnson,
L.B.S. Marg, Mulund (W), Mumbai - 400080.

Manufacturing Unit :
201, 207 & 208, G Wing, Udyog Bhavan No.: 2,
Plot No.: K-3, Additional Ambernath MIDC,
Ambernath-East-421506, Dist.: Thane, Maharashtra.

Phone   : + 91-22-25916858, 25916916 Cell : +91 8652065039
Email   : sales@bhoomiltd.com / bhoomianalyzers@gmail.com
Website : www.bhoomiltd.com