



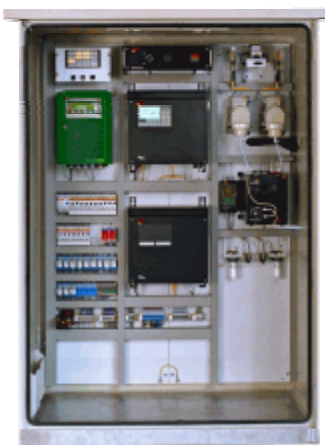
AGASTHYA 2005 Series BI 7000 Basic

Extractive Flue Gas Analyzer

The **AGASTHYA 2005** series **Model 7000 basic** is an online extractive analyzer for difficult flue gas continuous monitoring. It uses Electrochemical & IR principle to measure up to 8 pollutant species in a single self-contained unit. Sophisticated Sample Conditioning system is used for the sample gas to be cleaned and dried to a very high standard prior to analysis.

The BI 7000 Series can simultaneously measure up to eight components: sulphur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), hydrogen chloride, hydrogen sulphide, hydrogen fluoride and oxygen (O₂).

Also BI 7000 can be programmed for **DUAL STACK MONITORING**
Gas concentration can be either measured in **ppm or mg/m³**



Gas Parameters

Species	Range	Long Term O/P Drift	Linearity	Repeatability	Response Time T90
O ₂	25%	< 0.5% per month	< 1%	1% of signal	< 20 Sec
CO	10000ppm	< 1% per month	< 1%	2% of signal	< 40 Sec
CO ₂	25%	Derived	Derived	Derived	Derived
NO	2000ppm	< 2% per month	< 1%	2% of signal	< 25 Sec
NO ₂	200ppm	< 2% per month	< 1%	2% of signal	< 60 Sec
SO ₂	2000ppm	< 2% per month	< 1%	1% of signal	< 40 Sec
HCL	100ppm	< 2% per month	< 1%	2% of signal	< 120 Sec
H ₂ S	200ppm	< 2% per month	< 1%	1% of signal	< 35 Sec
H ₂ F	10ppm	< 2% per month	< 1%	1% of signal	< 90 Sec

Temp Parameters

Parameter	Measuring method	Range	Resolution	Accuracy	Time (T90)
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

Analyzer Features

- Up to eight gas species
- Conversion to O₂ based values
- Continuous monitoring
- Full range of outputs & alarms
- Data logging via pc software package
- Self diagnostic checks
- Modular system, can increase gas species from min one up to max eight

Analyzer Specification

- Process Temperature: dew point to 600 °C (above 600°C by arrangement)
- Ambient Temperature: -10°C to 50°C
- Sample Line: 15m Standard (up to 50m available)
- Measurement Units: ppm , mg/m³ and %

Outputs

- Four simultaneous 4 – 20 mA, permissible load resistance: 550 _ max.
- RS 422 Computer Interface

Power

- Cabinet: 110/220V AC, 50/60Hz, Single phase

Panel

- Standing Panel (Dimension) 800 x 2000(H) x 600(D)
Dimension may vary according to application.

Compressed Air

- Clean, Oil – free compressed Air 5 bar minimum pressure, 0.25 liter/sec continuous

Bhoomi Analyzers

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