

Agasthya 2013 Series Gas Analyzer Model BI 7400

The Agasthya 2013 Series Gas Analyzer BI 7400 is designed to meet the needs of various industrial process with combination of technologies. The technology employed is tried and tested to ensure the user experiences maximum reliability and accuracy.

Up to six gases can be analyzed simultaneously with scalable ranges for each gas. BI 7400 is an ideal solution to protect initial investment & long lasting performances.



Features:

- 32-Bit Cortex-M3 ARM Processor
- 5.7" Colour TFT Display
- Tried and tested technology with proven reliability
- Built-in to simultaneously analyze upto 6 gases
- Scalable ranges available for each gas
- Wide range of gas selectivity
- Compensated for temperature and pressure of media
- Isolated 4-20 mA analog output per each gas
- RS 485, MODBUS protocol
- Auto & semi auto calibration facilities

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Technical Specification

Parameter	Resolution	Accuracy	Scalable Range
GAS OPTION - NDIR			
Carbon Monoxide	1 ppm	±1% FSD	0-1000 upto 10000 ppm
Nitric Oxide	1 ppm	±1% FSD	0-500 upto 5000 ppm
Sulphur Dioxide	1 ppm	±1% FSD	0-500 upto 5000 ppm
Nitrous Oxide	1 ppm	±1% FSD	0-100 ppm upto 1000 ppm
Carbon Dioxide	1 ppm, 0.1%	±1% FSD	0-50 ppm upto 100%
Methane	0.1%	±1% FSD	0-1% upto 100%
Hydrocarbon	1 ppm, 0.1%	±1% FSD	0-50 ppm upto 100%
GAS OPTION - NDUV			
Chlorine	1 ppm, 0.1%	±1% FSD	0-500 ppm upto 100%
Nitrogen Dioxide	1 ppm	±1% FSD	0-50 ppm upto 5000 ppm
GAS OPTION - UV DOAS			
Hydrogen Sulphide	1 ppm, 0.1%	±1% FSD	0-50 ppm upto 100%
GAS OPTION - TDLS			
Hydrogen Chloride	1 ppm	±1% FSD	0-50 upto 100 ppm
Hydrogen Fluoride	1 ppm	±1% FSD	0-10 upto 30 ppm
Ammonia	0.1 ppm	±1% FSD	0-15 upto 50 ppm
GAS OPTION - Zirconia			
Oxygen	0.1%	±1% FSD	0-30%
GAS OPTION - Paramagnetic			
Oxygen	0.1%	±1% of reading	0-25%, 0-100%
GAS OPTION - Electrochemical			
Oxygen	0.1%	±1% FSD	0-21% upto 100%
Carbon Monoxide	1 ppm	±20 ppm<500 ppm, ±5%>500 ppm	0 - 100 upto 10000 ppm
Carbon Monoxide	0.01%	±5% FSD	0-10%
Nitric Oxide	1 ppm	±5 ppm<100 ppm, ±5%>100 ppm	0-500 upto 5000 ppm
Nitrogen Dioxide	1 ppm	±5 ppm<100 ppm, ±10 ppm<500 ppm ±5% >500 ppm	0 - 1000 ppm
Sulphur Dioxide	1 ppm	±5 ppm<100 ppm, ±5% >100 ppm	0-500 upto 5000 ppm
Hydrogen Chloride	1 ppm	±5 ppm	0-50 upto 200 ppm
Hydrogen Fluoride	1 ppm	±0.5 ppm	0-10 upto 30 ppm
Hydrogen Sulphide	1 ppm	±5 ppm	0-50 upto 5000 ppm
Hydrogen	1 ppm	±5 ppm	0-1000 upto 4%
Ammonia	1 ppm	±5 ppm	0-15 upto 1000 ppm
Chlorine	1 ppm	±5 ppm	0-50 upto 400 ppm

Analyzer Specification:

❖ Sensor Technology	: NDIR, Zirconia, Paramagnetic, NDUV, UV DOAS, TDLS, Electrochemical
❖ Repeatability	: ±1% of reading NDIR sensors : ±1% of reading NDUV sensors : ±1% of reading UV DOAS sensors : ±1% of reading TDLS sensors : ±0.5 % of reading Zirconia sensors : ±0.5 % of reading Paramagnetic sensors : ±2% of reading Electrochemical sensors
❖ Drift	: ±1% NDIR sensors : ±1% NDUV sensors : ±1% UV DOAS sensors : ±1% TDLS sensors : ±1% Zirconia sensors : <± 0.2% Paramagnetic sensors : ±2% Electrochemical sensors
❖ Response Time	: T90 < 15 sec NDIR sensors : T90 < 15 sec NDUV sensors : T90 < 15 sec UV DOAS sensors : T90 < 15 sec TDLS sensors : T90 < 5 sec Zirconia sensors : T90 < 5 sec Paramagnetic sensors : T90 < 60 sec Electrochemical sensors
❖ Operating Temperature	: 4°C to 65°C
❖ Analog Output	: 4-20mA
❖ Digital Interface	: RS 485, MODBUS
❖ Relay Output	: 2 Nos. potential free contacts for alarms
❖ Power Supply	: 110/230 VAC, 50 Hz

Bhoomi Advantages

- ❖ Low cost of ownership, maintenance and installation
- ❖ Ensured after sales & service support
- ❖ Spares and accessories availability guaranteed
- ❖ Combination of technologies and integration under one roof

BHOOMI[®] **Process Management Pvt. Ltd.**
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