Agasthya 2026 Series

Paramagnetic



Portable

Table Top

Battery Operated

BI 411

Portable Oxygen Purity Analyzer

Place the instrument on a stable, vibration-free surface

100% by BHOOMI

- 8 Hours Operation
- Flow Control
- Auto Compensation
- Touchscreen Display
- Rugged Portability
- Large Storage

BI 411

Portable Oxygen Purity Analyzer

Agasthya 2026 Series

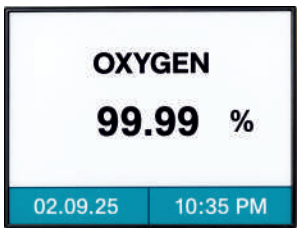
Standard Arrangement



Through-flow gas sampling

- 1/4-inch stainless-steel sample connection
- 24 VDC adaptor (Battery operated system)
- 32-bit Cortex-M3 ARM processor
- PTFE tubing and corrosion resistant internal components
- Flow meter for sample-flow regulation: 0.2 LPM
- Rechargeable lithium-ion battery with up to 8 hours of operation
- USB port for charging and data communication

Comprehensive Analysis Capabilities



- Oxygen measurement range: 0–100% scalable
- Resolution: 0.01%
- Accuracy: < ±0.2% O_2
- Repeatability: < ±0.02% O_2
- Drift: < ±0.2% O_2 per month
- Response time (T-90): ≤ 3 seconds

Data Management



- Auto logging
- Windows-based software for communication via USB and Wi-Fi
- Data storage listed as 500 sets

Optional Accessories



- SD card for expanded data storage
- External Bluetooth printer

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KEY FEATURES

- 32-Bit Cortex-M3 ARM Processor
- Long life Paramagnetic O_2 sensor
- PTFE tubing and corrosion-resistant components for internal sample health
- Flow meter for flow regulation
- 500 sets of data storage
- USB for Charging & Data communication
- Powerful windows software for analyzer data communication
- 8 Hours of battery operating time

DATA MANAGEMENT

- Upto 500 dataset with SD card
- Auto logging
- Windows-based software for communication via USB cable & Wifi
- Printable reports via external bluetooth printer

APPLICATIONS

- Industrial Gas Manufacturing
- Pharma & Biotechnology
- Food Packaging & MAP
- Semiconductor & Electronics
- Specialty Gas Filling Stations
- Chemical Plants
- Glove Box & Inerting Systems
- Heat Treatment & Metallurgy
- Laboratory Gas Lines

TECHNICAL SPECIFICATIONS

Method of Detection	Paramagnetic sensor for O2
Range Available	0–100% scalable, Resolution 0.01%
	95–100%, Resolution 0.01%
Gas Sensing Method	Through Flow
Accuracy	< ± 0.2% O2
Repeatability	< ± 0.02% O2
Drift	< ± 0.2% O2 per month
Response Time (T-90)	≤ 3 seconds
Display	5.6" Touchscreen LCD
Power	24 VDC adaptor (Battery Operated System)
Battery	Lithium-ion rechargeable batteries
Communication	USB
Data Storage	500 sets of data
Humidity	5–95% RH
Ambient Temperature Range	4 to 50°C
Flow Meter	0.1–1 LPM
Enclosure	Table Top
Enclosure Material	ABS
Dimension	289x258x156 (WxDxH) mm
Sample Connection	1/4 inch SS Connection
Area Classification	General Purpose

BI 411

Portable Oxygen Purity Analyzer

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OUR OTHER PRODUCTS

Our NPL & TUV Certified Products

Continuous Emission Monitoring System
BI 7000



Online Stack Flow Meter
BI 7300



Online Stack Dust Monitor - Opacity
BI 7010



Tribo Electric Dust Monitor
BI 7020



Our Other Gases & Liquid Analyzers

Insitu Zirconia Oxygen Analyzer
BI 2100, BI 2000



Portable Flue Gas Analyzers
BI Flexi Pro, BI 1XX, BI 2XX



Process Gas Analyzers
BI 3XX, 4XX, 6XX
BI 4XXX, BI 8000, BI 7400



Renewable Energy Gas Analyzer **BI 7100, BI 7110, BI 7120, BI 7130**



Ambient Air Quality Monitoring System
BI 9000



Multiparameter Water Quality Monitoring System
BI 1000



Water Sensors
BI XXXX



Single & Dual Channel Controllers
BI 13XX



Panel Mount Wall Mount

BHOOMI®

GAS • LIQUID • PROCESS

We Analyze It All!



Contact Us

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Disclaimer - Images are indicative, actual product may vary. Specifications may change without notice due to continuous R&D.