

TDLAS Process Oxygen Analyzer

Gasboard-9300



Ex db IIC T6 Gb



**TDLAS
Technology**



**High
Accuracy**



**Auto Safety
Interlock**



**Corrosion-
Resistant**

Product Overview






Gasboard-9300 is an online oxygen analyzer designed for continuous oxygen monitoring in reactors, centrifuges, and other oxygen-sensitive process equipment where maintaining a defined oxygen level is critical to safe operation and product quality.

Based on Tunable Diode Laser Absorption Spectroscopy (TDLAS) technology, Gasboard-9300 provides highly selective oxygen measurement with minimal cross-interference from background gases, ensuring fast response and stable long-term performance even under complex gas compositions.

To withstand demanding process environments involving corrosive and volatile solvent vapors, Gasboard-9300 integrates a corrosion-resistant pre-treatment system compatible with acids, alkalis, and organic solvents. The certified explosion-proof enclosure (Ex db IIC T6 Gb) further enables safe installation in Zone 1 and Zone 2 hazardous areas.

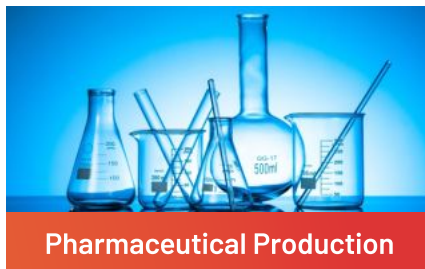
Built-in automatic interlock functions, including alarm output and nitrogen purge control, enable timely protective actions when oxygen concentration exceeds preset thresholds, supporting inerting systems and overall process safety management.

Key Features

-  TDLAS technology for high measurement accuracy
-  Fast response time for real-time oxygen concentration monitoring
-  Explosion-proof design (Ex db IIC T6 Gb) for safe operation in hazardous areas
-  Built-in automatic safety interlock with alarm and nitrogen purge control
-  Low maintenance requirements and long service life

Applications

Widely used in oxygen-sensitive and safety-critical process environments, including reactors, centrifuges, and other enclosed process equipment, where defined oxygen control supports inerting systems, solvent handling, and reliable process operation.



🔧 Specifications

Measurement Principle	TDLAS (Tunable Diode Laser Absorption Spectroscopy)
Measurement Range	0-5%, 0-25% O ₂
Accuracy	≤±2% F.S.*
Repeatability	≤±1% F.S.*
Linearity Error	≤±2% F.S.*
Resolution	0.1% or 0.01% (range-dependent)
Response Time (T90)	< 20 s
Explosion Protection	Ex db IIC T6 Gb
Operating Temperature	-20 ~ 50 °C
Operating Humidity	0 ~ 98% RH (non-condensing)
Output	RS-485 (standard) / RS-232 (optional), Modbus RTU
Power Supply	24 VDC / 220 VAC

*Specifications may vary depending on configuration and application requirements. Please contact us for detailed technical documentation: sales@gasalyzer.com.cn

Cubic Instruments (Wuhan) Ltd.

Address/Add.: No.5, Feng Huang Yuan Yi Road, Feng Huang Industrial Park, East Lake High-tech Development Zone, Wuhan, Hubei, China
 Postal Code/P.C: 430205
 Telephone/Tel: 027-81628829, 13871288339 (Sales)
 Website/Web: www.gas-analyzers.com
 Email/E-mail: sales@gasalyzer.com.cn

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