

AL 2021

CONTINUOUS H_2O_2 MONITOR

FOR AIR AND WATER SAMPLES IN PPB RANGE

AL2021 H_2O_2 ANALYZER

A LEAP FORWARD IN PRECISION MEASUREMENT

In the demanding and dynamic world of process control and quality assurance, Aero-Laser's AL2021 emerges as a game-changer. Designed for professionals in process control and quality assurance who demand nothing but the utmost accuracy, reliability and efficiency, this cutting-edge instrument is the ultimate technology for measuring down to sub ppb hydrogen peroxide (H_2O_2) concentrations in both gases and liquids.



Empowering your processes

The AL2021 is not just a piece of equipment; it is the key to unlock greater process reliability, significantly reducing production rejects and downtime. Its impact on throughput and productivity is significant, enabling you to achieve more in less time. With traceability features, it ensures that you have a clear record of your processes, further enhancing quality control.

Technical excellence unveiled

The AL2021 sets itself apart with unparalleled sensitivity and resolution, ensuring that even the most minute concentrations of H_2O_2 are detected with exceptional precision. Notably, the AL2021's calibration capabilities underscore its reliability, offering continuous, absolute concentration measurements that professionals can trust.

- Highest sensitivity and resolution
- Applications in both liquid and gas phases
- Continuous online measurements
- Automated calibration guarantees consistent and reliable results
- Integration and stand-alone use
- Remote control and data storage
- Robust design = reliable performance even in harsh environments

Simplicity meets sophistication

Simplicity remains a highly valued virtue in the exciting and ever-evolving world of technology. The AL2021 strikes the perfect balance between simplicity and sophistication!

- Intuitive design – no need for specialized training
- Fully automated operation
- Reduces the workload – ease of use in both measurement applications, liquid and gas
- Low maintenance requirements

A catalyst for cost efficient productivity enhancement

Efficiency, productivity and yield are keys to successful manufacturing operations. The AL2021 facilitates this by offering steady and precise monitoring for improved process management, ensuring your operations maintain optimal performance. This leads to an uplift in production capabilities, helping you to fulfill and surpass the expectations of your clients and markets. Moreover, with its low total cost of ownership, the AL2021 is a prudent investment that pays dividends in both the short and long term.



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Unleashing potential across industries

In the rapidly evolving industrial landscape, precision and reliability are not just desired; they are demanded. The AL2021 H_2O_2 analyzer is at the forefront of meeting these demands, offering unparalleled measurement accuracy of hydrogen peroxide in gases and liquids. Its impact resonates across various sectors, each with its unique challenges and requirements.

- Pharmaceuticals
- Semiconductor
- Water treatment
- Academia and research



Empowering industries, protecting futures

The AL2021 H_2O_2 analyzer is more than a device; it is a beacon of reliability and excellence in a world that demands nothing less. By providing precise, reliable data, it empowers industries to not only meet but exceed standards of quality, safety, and efficiency. It's not just about meeting the present needs; it's about anticipating the future, ensuring that every industry it touches is poised for success and sustainability.

Choose the AL2021, where every measurement is a step towards a safer, cleaner, and more efficient world.

Specifications

Detection technique:	Continuous, using enzymatic reaction (peroxidase)
Detection limit:	<100ppt (gaseous), <100ng/liter eq. $<2\times10^{-9}$ molar (liquid)
Linear range:	0.1ppb to 3000ppb (gaseous), 100ng/liter - 3mg/liter (liquid)
Noise:	2% full scale
Time resolution:	~90sec (10/90)
Sample:	Liquid and gas
Calibration:	Automatic, using liquid standard
Integration:	RS232 and LAN interface, data logging software available
Operation data visualization:	Graphic user interface (7" touch panel) and remote via RS232/ LAN
Data storage:	USB drive and internal data backup
Weight and dimension:	15kg, fit for 19" rack (whd: 45cm × 15cm × 56cm)
Power requirements:	110VAC / 220VAC, 110W, 24VDC on request

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