

MiCRO NO_X

ULTRALIGHT NO_X MONITOR

FOR AIRBORNE MEASURING IN PPB RANGE

MiCRO NO_x

REVOLUTIONIZING MOBILE NO_X ANALYSIS

In the pursuit of environmental sustainability, understanding and controlling air pollutants like nitrogen oxides (NO_x) is crucial. The MiCRO NO_x mobile NO_x Analyzer is a revolutionary tool that empowers technical staff and researchers to actively monitor and significantly reduce air pollution. With its advanced features and unparalleled portability, the MiCRO NO_x is set to transform the landscape of air quality monitoring and environmental research.



Broadening horizons in air quality monitoring

The applications of the MiCRO NO_x span critical areas in environmental and climate research, where understanding the distribution and concentration of NO_x is essential for assessing pollution sources and impacts. Its mobility allows for unprecedented studies of urban air quality, offering insights into pollution hotspots and the effectiveness of mitigation strategies in real-time. In environmental and climate research, the MiCRO NO_x supports in-depth studies on the interactions between pollutants and climate variables, enhancing our understanding of their broader environmental impacts. For urban air quality monitoring, it provides valuable data that can guide policy-making, urban planning and public health initiatives, helping to create healthier, more sustainable urban environments.

Technical progress for on-the-go precision

The MiCRO NO_x stands out with its ultralight design, making it the ideal solution for mobile use. Its capacity for continuous, real-time measurements allows for the detailed tracking of NO_x levels across different environments and conditions. With autonomous operation, a built-in GPS module, and meteorological sensors, the MiCRO NO_x provides comprehensive data on the go, capturing the nuances of air quality in real-time and space. Automatic calibration ensures that the device maintains its accuracy without the need for complex setup procedures, while its fast measurement capabilities mean that data is not just timely but also highly relevant. Adhering to standard procedures, the MiCRO NO_x guarantees reliable and comparable results, making it a trusted tool in the field of air quality analysis.



Empowering users - unmatched convenience and reliability

The MiCRO NO_x is more than a technological innovation; it is a user-centric device, designed to simplify the task of air quality monitoring. Its mobile nature opens up new possibilities for on-site analysis, providing immediate insights that can inform quick decisions and actions. The simplicity of its operation and field calibration means that it can be used effectively by a wide range of personnel, from field researchers to environmental consultants, without the need for extensive training. Environmental institutions and measuring stations can leverage the MiCRO NO_x's capabilities to expand their monitoring networks, covering more ground with greater accuracy and less effort. By bringing the laboratory to the field, the MiCRO NO_x paves the way for more dynamic and responsive environmental monitoring strategies.



A leap forward in environmental responsibility

The MiCRO NO_x analyzer represents a significant advancement in our ability to monitor and understand air pollution, offering a blend of technical excellence, user-centric design, and wide-ranging applicability. Its introduction marks a pivotal moment in environmental monitoring. It provides us with the necessary tools to confidently tackle one of the most pressing challenges of our time: air pollution! With the MiCRO NO_x, industries, researchers, and environmental advocates are equipped with a powerful ally in the fight for cleaner air and a healthier planet. It‘s not just about tracking pollutants; it‘s about empowering change-makers with the data and insights needed to forge a cleaner, more sustainable future. Choose MiCRO NO_x: mobilizing data, clearing the air for tomorrow.

Specifications

Detection techinque:	Liquid chemiluminescence, using luminol reaction
Detection limit:	~1ppb
Linear range:	<2ppb to 1000ppb NO_x
Noise:	2% full scale
Time resolution:	0.2s, measuring frequency 1 reading/second
Meteorological data:	rel. humidity, temperature, pressure
Geolocation:	x, y, z, t via built-in GPS module
Calibration:	Automatic, using gas standard
Operation/ data visualization:	Ground control unit for in-field calibration, connects to flight unit via radio (≤500m), graphic user interface (7" touch panel)
Data storage:	Internal, download via USB
Weight and dimensions:	Flight unit <2kg (diameter: 21cm. height: 20cm) Ground control 5kg (whd: 35cm × 20cm × 30cm)
Power requirements:	12V to 24VDC, max. 700mA

AERO-LASER GMBH

Unterfeldstr. 12
D-82467 Garmisch-Partenkirchen
Germany
Tel: +49 8821 94386-0
info@aero-laser.de
www.aero-laser.de

ZIM Zentrales Innovationsprogramm Mittelstand
ZF4186201RE5

Supported by:
Federal Ministry for Economic Affairs and Energy
on the basis of a decision by the German Bundestag

Follow us on LinkedIn