

SERRAX TECHNOLOGIES

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Product Catalogue

CO2 & O2 Analyzer (CDA 802)

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CO2 Analyzer (CDA 802 OX)



Display



Date

Time

A CO2 analyzer is a scientific instrument designed to measure the concentration of carbon dioxide in a given sample, often in gases or liquids. These analyzers are crucial in various industries, including environmental monitoring, industrial processes, medical applications, and research laboratories.

The CDA 802 OX Instruments, if it exists, is likely to be a specific model or product line within the broader category of CO2 analyzers. These analyzers typically employ infrared absorption spectroscopy, chemical reactions, or other sensing technologies to detect and quantify CO2 levels accurately. The analyzer is designed to be highly accurate and reliable, ensuring that you can trust the data it provides. It is also easy to use, with a user-friendly interface that makes it simple to operate. The compact and durable design of this analyzer makes it highly portable and ideal for use in a range of settings including Incubator testing, laboratories, green-house assessment, warehouse monitoring, gas cylinder testing, manufacturing facilities, research centers, etc

Our CO2 gas analyzer is an excellent device for anyone looking for accurate and reliable CO2 monitoring. With its high accuracy, easy-to-use interface, and inbuilt LCD display, it is a valuable tool for a wide range of applications.

Benefits

- **Environmental Monitoring** : CO2 analyzers play a crucial role in environmental monitoring, helping to assess and manage air quality.
- **Industrial Processes** : In industrial settings, CO2 analyzers are used to monitor and control processes that produce or consume carbon dioxide.
- **Indoor Air Quality (IAQ)** : CO2 levels can be used as an indicator of indoor air quality. High concentrations of CO2 in enclosed spaces can lead to discomfort, drowsiness, and reduced cognitive function.
- **Greenhouse Gas Emission Monitoring** : In the context of environmental regulations and corporate sustainability goals, monitoring CO2 emissions is critical.
- **Medical Applications** : In healthcare, CO2 analyzers are used in respiratory monitoring equipment to measure the concentration of CO2 in exhaled breath.
- **Research and Laboratories** : CO2 analyzers are essential tools in scientific research and laboratories, where precise measurement of gas concentrations is required.
- **Safety in Confined Spaces** : In industrial and occupational safety applications, CO2 analyzers are used to assess the presence of high concentrations of CO2 in confined spaces, helping to prevent hazardous conditions for workers.



Specification

- **Measuring Principle: Non-Dispersive Infra-red (NDIR)** - This analyzer employs Non-Dispersive Infra-red technology, which is a commonly used method for measuring the concentration of gases like CO₂. NDIR works by measuring the absorption of infrared light by the gas, providing accurate and reliable results.
- **Ranges Available: CO₂ -: 5%, 10%, 20%, 100%** - The analyzer is capable of measuring a range of CO₂ concentrations, and it offers multiple measurement ranges: 5%, 10%, 20%, and 100%.
- **Resolution: 0.1%** - The resolution of the instrument is 0.1%, meaning it can detect changes in CO₂ concentration as small as 0.1%.
- **Accuracy: 2% at FS (Full Scale)** - The accuracy of the analyzer is specified as $\pm 2\%$ of the full-scale range. This indicates the maximum potential deviation of the measured values from the true values.
- **Response Time: T₉₀ <10 sec** - The time it takes for the analyzer to reach 90% of the final measured value is less than 10 seconds. This fast response time is important, especially in applications where real-time monitoring is crucial.
- **Flow Rate: 100cc/min (Contact us for applications not requiring a pump)** - The specified flow rate for the sample is 100 cubic centimeters per minute. Additionally, it suggests that if there are applications that don't require a pump, you can contact the manufacturer for further details.
- **Display: In-built LCD (display updated every second)** - The analyzer features an in-built LCD display that is updated every second, providing real-time information on the CO₂ concentration.
- **Data transfer: RS232 / USB** - The analyzer supports data transfer through RS232 and USB interfaces, allowing users to connect the instrument to external devices such as computers for data logging or analysis.
- **Memory: 4GB In-built, non-volatile, sufficient for several months** - The analyzer comes with 4 gigabytes of in-built, non-volatile memory. This memory is sufficient for storing data over several months, depending on the logging interval and usage.
- **Logging Interval: Programmable. 1 min to 1 hour** - Users can program the logging interval for data recording, ranging from 1 minute to 1 hour. This feature allows flexibility in data collection based on specific monitoring needs.
- **Battery: Rechargeable (lasts for 8 hours after charging)** - The analyzer is equipped with a rechargeable battery that provides a runtime of approximately 8 hours after a full charge. This ensures portability and continuous monitoring in applications without a constant power source.
- **Weight: Approximately 0.4 Kgs. (with batteries)** - The weight of the analyzer, including batteries, is approximately 0.4 kilograms. This lightweight design enhances the portability of the instrument.
- **Accessories: Charger, data transfer cable, software, manual** - The provided accessories include a charger for recharging the battery, a data transfer cable for connecting to external devices, software for data analysis, and a manual for user guidance.

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