



PRODUCT
DATASHEET '25

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



Egetra-TOC 1000

Advance Analytik Egetra Series

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Egetra-TOC 1000

Precision Carbon Analysis through Catalytic Combustion Technology

Principle

Combustion Oxidation – Non-Dispersive Infrared Absorption Method. Carbon-containing inorganic matter in the sample undergoes acidification and aeration treatment before being introduced into a high-temperature combustion process (680°C) within an air stream free of carbon dioxide. An infrared detector then measures the resulting carbon dioxide content. Finally, the total organic carbon (TOC) is calculated based on the correlation between carbon content in CO₂ and TOC.



Key Note: Combustion takes place at 680°C to ensure complete oxidation of organic carbon species.

Product Features

- Multi-port valves with ceramic valve cores feature high wear resistance, strong acid resistance, organic solvent resistance, extended service life, and superior stability.
- Spiral glass tubes provide superior cooling efficiency for high-temperature gas inputs and enhanced energy utilization.
- Thermal insulation foam with low thermal conductivity effectively isolates temperature differentials between the condenser's interior and exterior, minimizing heat transfer and optimizing condensation performance.
- Precision thermistors and low-power condensing elements are ingeniously integrated with advanced PID algorithms to achieve highly accurate temperature control within the condenser.
- Features dynamic dilution capability, automatically adjusting dilution ratios based on the field-set measurement range.
- Includes automatic fault diagnosis and the ability to upload and record abnormal information, such as component failures, over-range alarms, exceedance alarms, and low-gas alarms.
- Upon abnormal reset or power restoration after an outage, the instrument automatically purges residual reactants and resumes initial operational status. Features a power-on alarm function, generating an alert message upon restart after a power interruption.
- Includes process logging for analytical instruments, measurement data recording, and alarm information storage. Data calculations are logged hourly, stored for over 3 years, and can be rapidly exported via USB drive.
- A 40L nitrogen cylinder provides approximately 15 days of operation in continuous measurement mode. When operating in gas-saving mode (1-hour measurement intervals), it lasts approximately 60 days.
- Requires no reagents, completely eliminating secondary pollution from waste liquids and wastewater.

Egetra-TOC 1000

Technical Specifications

Basic Specifications	
Measurement Range	0-10000 mg/L, (we can do upto 100,000 mg/l)
Indicated Value Error	Within 5-100mg/L: 20%* \leq \pm 10%; 50%* \leq \pm 8%; 80%* \leq \pm 5%; >100mg/L: \leq \pm 5%
Lower Limit of Quantification	\leq 5 mg/L (indicated value error \pm 30%)
Repeatability	\leq 5%
Low Concentration Drift	Within 5-100mg/L: \leq 1mg/L
High Concentration Drift	\leq 5%
Resolution	0.1mg/L
Display	7-inch touchscreen
Measurement Mode	Continuous mode, cyclic mode, fixed-point mode, controlled mode, manual mode available
Measurement Cycle	\leq 12 minute
Calibration Mode	Manual calibration and automatic calibration modes
Maintenance Cycle	Generally once a month
Power Supply	220V \pm 22V, 50Hz or DC24V
Output	4-20mA
Communication Method	MODBUS RS-485
Combustion Temperature	680°C
Environmental Conditions	Temperature-controlled indoor environment, recommended temperature range: +5 to 40°C; humidity \leq 85% (non-condensing)



APPLICATIONS



Industrial Manufacturing
Monitor oil levels in cooling systems and lubrication circuits for efficient machinery operation.



Wastewater Treatment
Detect oil contamination in water discharges, ensuring compliance with environmental regulations.



Oil Refineries
Maintain water purity by tracking oil presence in cooling and water treatment systems.



Marine Applications
Monitor bilge water for oil leakage prevention in marine vessels.



Power Plants
Control oil leaks and contamination in water circulating systems for enhanced efficiency.



Chemical Processing
Ensure process water purity by monitoring oil content in chemical manufacturing.



Note -

This data sheet serves as general information about the Egetra-TOC 1000. For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.

For inquiries and detailed technical information, please contact sales@advanceanalytik.com.



LET'S CONNECT!

Let's work together to find a solution that works for you



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