

TOC Analyzer

TOC-3800



Use High-temperature catalytic oxidation -NDIR detection to detect the Total organic carbon concentrations in water samples, range from 0.05ppm-35000ppm.

EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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►► Fundamentals:

Proformance by the combustion furnace to the oxidation catalyst at a high temperature combustion of the sample is decomposed into carbon dioxide and water vapor through a condenser to cool after removing the carbon dioxide measured by non-dispersive infra-red detector (NDIR), total carbon in the sample to determine TC the content; by the inorganic acid reagent in the sample is decomposed into carbon dioxide and water vapor through a condenser to cool after removing the carbon dioxide measured by non-dispersive infra- red detector (NDIR), the sample to determine the content of total inorganic carbon TIC; $TOC = TC - TIC$.

►► Product Features:

- Three -way electronic condensate dehydration
- Place the burner anyway integrated desing, easy to replace, you can configure a solid injector, in solid samples into the sample
- TC, TIC, TOC, NPOC Detection mode: TC,TIC, TOC, NPOC
- A highly reflective gold plating chamber, an infrared light source and condensing the high sensitivity of the infrared detector, to ensure superior performance NDIR ; ppb level data measured with sufficient sensitivity and precision
- Real-time detection of curvers visible
- Liquid samples autosampler , precision electromagnetic metering pumps, injection volume 50-100μL
- Multiple temperature, pressure, flow in real-time self-monitoring
- Embedded 7-inch touchscreen
- Built-in dot matrix printer
- Quantity: 100g/L
- Configuring online modules, online monitoring
- The maximum temperature up to 1100 degrees, deoending on the sample to select a different catalysts
- (such as) CeO, Pt, CuO), and to set defferent temperatures.
- In built auto blank correction for aqueous sample

►► Technical Parameters:

Fundamentals	catalytic combustion oxidation-NDIR
Detect range	0.05-35000.0mg/L 50ppb-35000ppm
TOC precision	0.005mg/L 50ppb
Accuracy error	≤± 5%
Repeatability error	≤± 3%
Span drift	≤± 2%/D
Zero drift	≤± 2%/D
Showing Data	TC, IC, TOC, NPOC
Response time	3-8 mins
Injection method	Priming electromagnetic pump
Reagent	Phosphoric acid
Carrier gas	High purity oxygen
Communication	No external
Display and operator	7 inches touch screen
Data storage	2- year data (date measured 500 times)
Options	Embedded dot matrix printer
Printer	Autosampler Online device Dilution Solid Injector
Power	220V AC ≤± 10% 50Hz
Output	800W
Ambient temperature	0-40 degree Celsius
Dimensions (W*D*H mm)	600*430*420
Weight	40Kg
Analysis Range Solid	0 to 30mg Carbon, 1 to 20µg Carbon with High Sensitive Mode
Sensitivity	4 g/L
Detection Limit	4 ppb for carbon; 0.1 ppm for nitrogen or better

►► Application:

- Cleanliness verify wash water
- Tap water, surface water
- Rivers, lakes and water
- Chemical water (washing water, cooling water, recycled water, sewage water, etc.)
- Chemical production process and finished product testing
- Laboratory research

▶▶ Regulatory compliances



▶▶ Corporate Social Responsibility

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Analytical Foundation

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▶▶ Reach us @



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