

EURO TECH

欧陆科仪

ET1020A TOC Analyzer

	USEPA and ASTM approved combustion oxidation
	TC/TIC/TOC measurement
	Sequence analysis of unattended operation for programming
	ETTOC Software can be used to store analysis methods and analysis of sequences
	Features of transporting and adding samples, including color-coded, large-diameter pipelines, easy maintenance, improve reliability
	Optional autosampler



Applications

An analyzer of measuring TOC in surface water, running water, waste water, sea water, hydrogen peroxide and industrial water, for the comprehensive evaluation of the degree of organic pollution in water

Environmental monitoring

urban water supply and drainage, CDC, chemical, power, etc.

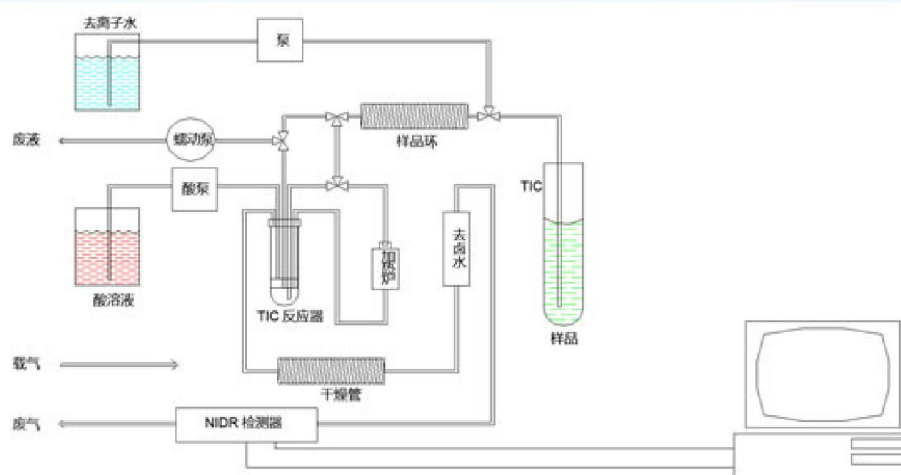
Standards

- DIN38409H3
- EN1484
- EPA415.1,415.3
- Standard Method 5310B (U.S.)
- GB 13193-91
- Water Quality Regulations for Drinking Water 138 (P.R.China)

Principles

Carbon compounds combust in an oxygen-rich environment, resulting in complete conversion of carbon to carbon dioxide (CO_2). TC is determined when the NDIR detector detects the resulting CO_2 . TIC is determined by measuring CO_2 released following sample acidification. As the sample pH lowers, carbonate and bicarbonate ions convert to dissolved CO_2 , which is purged from solution and swept into an NDIR detector. The NDIR detector is calibrated to display the mass of CO_2 detected. TOC is determined by performing separate TC and TIC analyses and subtracting the results.

$$\text{TOC} = \text{TC} - \text{TIC}$$



ET1020A Work Drawings

Operating parameters

Range

- TC/TIC/TOC: 0.5ppm ~ 10000ppm

Precision

- TC/TIC/TOC: 3%

Analysis

- TC/TIC/TOC: 4 ~ 8 min.

Particulates

- <400µm

Air source

Oxygen

- <1ppm CO₂, CO and THC, 50 ~ 60psi
- purity: ≥99.98%

Nitrogen (Options for the POC)

Options

- Computer
- Autosampler

General parameters

Combustion temperature

- 900℃ with zirconium packing
- 680℃ with platinum catalyst

Sample Introduction

- Fixed volume sample loops: 25µm; 50
- Suction sampling
- Autosampler (optional)

Detection

- Nondispersive infrared cell

Physical parameters

Dimensions

- 35cm H×28cm W×48cm D

Weight

- 15kg

Communications

- RS-232-C

Software ETTOC

A Windows-based software which can set instrument parameters, create and call analysis methods, set analysis program and deal with the data.

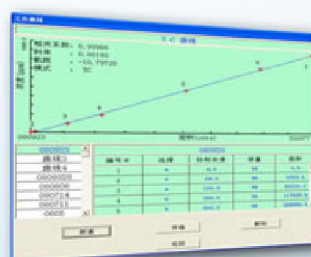
It also can monitor equipment components for normal operation.



set analysis methods



set sequences of
sample measuring



establish calibration curve



main menu for analysis

ET1020A TOC Analyzer

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