

A reliable system that accurately detects organic pollutants in wastewater and environmental water.

# Shimadzu TOC-4200 Online Total Organic Carbon Analyzer

## Features

- The wide-ranging measurement system covers measurements from highly polluted pre-treatment wastewater to released wastewater with a low TOC level.
- The unique, simple-structured multifunction sample treatment/injection system provides measurement stability.
- The unique suspension sample pretreatment unit reduces problems in the sample pipes and facilitates maintenance.

## Overview

(Technical principles, actions, etc.)

Total organic carbon (TOC) is the amount of carbon contained in an organic substance and used as an indicator of organic pollution. It has received attention as an organic pollution indicator using a clear measurement target. TOC-4200 employs catalytic thermal oxidation at 680° C to process the organic substances in the sample, and measures the TOC in the generated CO<sub>2</sub> accurately and quickly.

- The multifunction sample injection system and suspension sample pretreatment unit enable stable measurement and easy maintenance.
- In addition to wastewater, the analyzer provides high sensitivity measurement for tap water, boiler water and other samples with a low TOC level.
- The analyzer is designed to minimize the maintenance after analyzing sea water and other high salinity samples.
- The color LCD monitor and touch panel enhance viewability and usability.
- The analyzer also supports new communication standards such as digital communication and web monitoring.



TOC-4200

Applicable field  
Facilities for monitoring organic pollutants in wastewater as well as wastewater treatment

Water

Energy saving/Energy recovery

Energy storage/Energy creation

New energy

Waste disposal/  
Recycling/  
Resource saving

Air

Soil

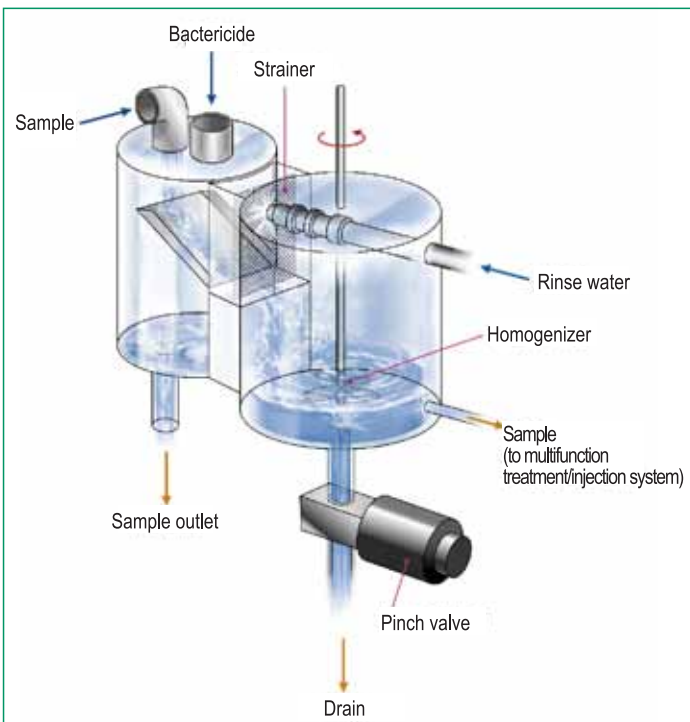
Other

## Introductory Track Record

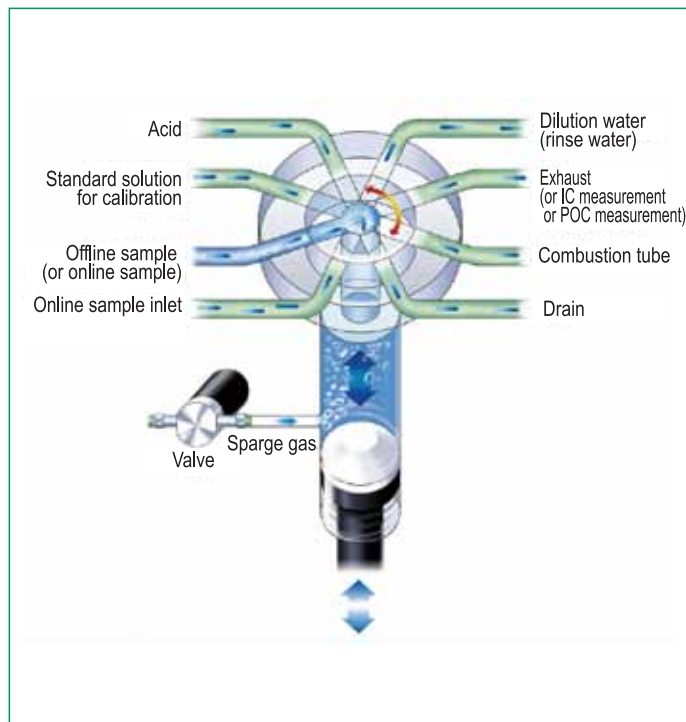
The online TOC analyzer is used worldwide; in Japan, China, India and other regions in Asia, and also in Europe, North and South America, and the Middle East.

## Effects

By monitoring the “upstream” untreated wastewater that goes into wastewater treatment facilities in addition to treated water for which monitoring is required by wastewater and environmental regulations, the analyzer prevents unregulated wastewater from being released into the environment. The online TOC quickly and accurately detects organic pollutants and is ideal for monitoring unregulated organic wastewater in the “upstream.”



Single stream suspended solids pretreatment unit



A variety of sample treatment functions and injection systems

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\*Note: This publication introduces examples of technologies and products believed useful towards solving environmental and energy issues. In no way does it constitute guarantees concerning their transfer or sale.