

TOC-L

TOTAL ORGANIC CARBON ANALYZER

Shimadzu's TOC-L total organic carbon analyzer employs the 680°C combustion catalytic oxidation method to achieve high organic material detection and the sensitivity required for pure water management.



Easy to Use

■ Standalone Model

- Easy-to-use dedicated keyboard and highly-visible TFT color LCD screen
- Output measured data to USB memory for easy PC-based data management
- Printout by commercially-available PC printer (ask Shimadzu about compatible printer models)
- PC controllable (software supplied as standard)

■ PC Software

- Popular drag-and-drop operation
- Simple USB computer connection expands the choice of PC

■ Common to All Models

- Space-saving and energy-saving design

Features

- High oxidation and detection capacity, and extended catalyst and combustion tube service life. Established and proven 680 °C combustion catalytic oxidation method.
- Ultra-wide sample range from 4 µg/L to 30,000 mg/L permits TOC measurements from pure water to highly-polluted water.
- Fully automated sample pretreatment handles inorganic carbon removal and dilution. Multifunction sample injection system. Pretreatment in total organic carbon analyzer prevents atmosphere pollution.
- The series includes PC-controlled models for excellent data processing and standalone models for ease of operation.
- A wealth of options to expand the range of applications.
 - TN unit permits total nitrogen measurements by thermal decomposition and chemiluminescence
 - Measures solid and gas samples, in addition to water samples
 - Special combustion tube and catalyst reduce maintenance required when measuring seawater samples
 - Compatible with small sample volumes (three automated NPOC measurements on 5 mL sample)
 - High suspension kit measures highly sedimentary suspended organic matter with good repeatability.

Note: The effect depends on sample and measurement conditions

Use in Diverse Fields

Process Control

effluent treatment
process control,
ultrapure water recycling
and re-purification
processes

Quality Control

water supply equipment,
electronic components,
aluminum foil,
raw materials

Investigations and Experimental Research

global environment, eutrophication,
river water, lakes and marshes,
underground water, sea water,
soil, sludge, sediments,
biodegradable plastics and cement
secondary products

Water Quality Control

tap water, ultrapure water,
effluent, raw water,
swimming pool water,
spa water, boiler water,
water from industrial
processes

Pharmaceutical Manufacturing

pharmaceutical water control,
evaluation of
cleaning effectiveness
(cleaning validation)

Standalone Model with a TFT Color LCD Screen Providing Outstanding Visibility

Easy-to-read color screen and simple, user-friendly keyboard

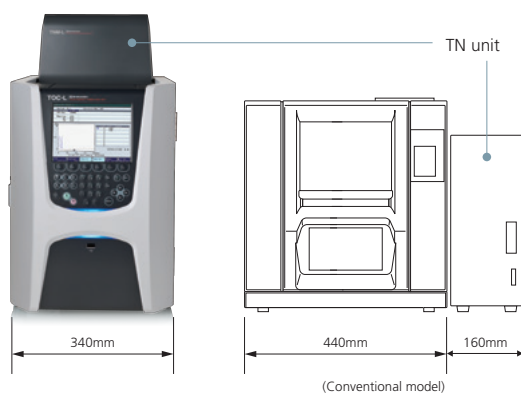


PC Software Offers a Wealth of Functions and Intuitive Drag-and-Drop Operation

- Addition of samples during continuous measurement
- Accuracy control function
- 21CFR Part11 compatibility

Space-Saving Design

The width of the instrument is 20 % less in comparison with conventional Shimadzu models. This enables more effective use of laboratory space. The instrument width is unchanged even when the TN unit is added.



Energy-Saving Design



This instrument bears the Shimadzu eco-label. Energy consumption has been reduced by 36 % (100 V) and 43 % (200 V) in comparison with conventional Shimadzu models. (Assuming 8 hours operation/day × 5 days/week)



Shimadzu Corporation
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