SHIMADZU'S WORLD-LEADING TOC ANALYZERS

Comprehensive selection of options enables the analysis of a wide range of samples, from ultrapure water to polluted water, as well as solid and gaseous samples

TOC-Vc Series Analyzers

Combustion method

The 680˚C combustion catalytic oxidation method developed by Shimadzu can efficiently oxidize hard-to-decompose insoluble and macromolecular organic compounds, not just the easily-decomposed, low-molecular-weight organic compounds.

Features & Benefits

- Extremely wide range from 4µg/L to 25,000mg/L for applications from ultrapure water to highly contaminated water
- Simultaneous TOC and TN (Total Nitrogen) analysis (with TNM-1 unit)
- Stand-alone and PC-controlled models available
- Newly designed NDIR, with linearity of 5 orders of magnitude
- On board autodilution

SZ-220-95262-00

Total Nitrogen
TNM-1 Unit

Combining the combustion TOC-Vc analyzer with a TNM-1 creates a TOC/TN simultaneous analysis system

SZ-638-91065-01

For additional information about Shimadzu's TOC-V Series Analyzers please contact Technical Support at 1-888-883-3636 or email techsupp@mandel.ca

TOC-Vw Series Analyzers

Wet chemical method

The Shimadzu TOC-Vw Series, with its exclusive heated-UV-persulfate oxidation method, makes other wet oxidation systems obsolete.

Features & Benefits

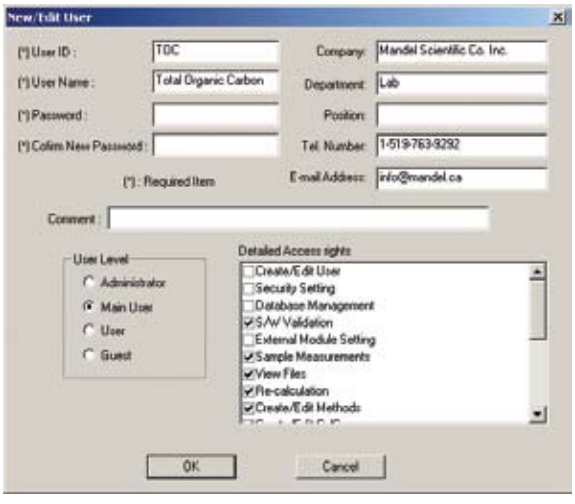
- High-efficiency system with low-cost consumables reduces cost of ownership by up to 50%
- Unique heated-UV-persulfate oxidation method ensures rapid, efficient breakdown of hard-to-oxidize compounds up to 1.6mm in diameter
- Up to 50% reduction in analysis time
- Sample volumes up to 20mL
- High-sensitivity NDIR detector eliminates false peaks; detection limit down to 0.5ppb
- Stand-alone and PC-controlled models available
- On board autodilution

SZ-220-95303-01

TOC-V Software

Includes quality control sample chart tracking capability

TOC-V Control software is a 32-bit comprehensive product that addresses the needs of the networked laboratory by utilizing the power and security of Microsoft (Windows® NT/2000/XP). Electronic signatures & records, audit trails, and maintaining the raw data ensure data integrity. System administrators can completely customize access to instruments and projects, including password protection and assignments of functional levels for each user. Quality Control Tracking, which tracks samples over time, is a unique Shimadzu TOC feature that also incorporates a separate program that allows for viewing charts while performing an analysis.



SHIMADZU'S 4110 SERIES ANALYZERS

Better water-treatment process monitoring and control, saving you time, labour and money!

TOC-4110 Analyzer

Total organic carbon on-line process analyzers

SZ-220-95297-01

Features & Benefits

- Automatic dilution expands analysis range, allows reduction in salt, acid/alkali concentrations for reduced maintenance & extended catalyst life
- Optional multi-stream selectors allow analysis of 2 streams or up to 6 different streams of varying carbon concentrations
- Individually programmable measurement conditions and measurement intervals of each sample stream
- Automated user-defined calibration check or recalibration using standard solutions stored on-board
- On-board carrier/combustion gas purification eliminates use of cylinder gases

TOCN-4110 Analyzer

Total organic carbon/total nitrogen on-line process analyzers

SZ-220-95292-01

Features & Benefits

- Ideal for effluent and waste water treatment
- Eliminate the need for multiple analyzers: analysis for up to seven streams
- Eliminate the need for costly replacement filters and chemicals
- Fast testing: less than four minutes per analysis
- 4-20mA or 0-1 volt analog outputs
- Many contact input and output events
- On-board autodilution

For additional information please contact Technical Support at 1-888-883-3636 or email techsupp@mandel.ca

TNPC-4110C Analyzer

Total nitrogen, phosphorus and carbon on-line process analyzers

SZ-220-91075-02

Features & Benefits

- Automatic sample pretreatment and digestion
- Automatic calibration
- Multi-stream monitoring capability
- Optional capability of measuring TOC
- Analogue outputs
- Contact input/output controls and alarms

Applications

- Public water source monitoring
- Wastewater treatment
- Industrial effluent monitoring
- Management of denitrification/ dephosphorization processes