

Options for Configuring an Automatic Measurement System

ASI-L Autosampler

Even More Functionality and Convenience,
Enabling Samples to Be Added During Continuous Measurement

Features

- Select from three vial types with different capacities to suit your application.

Combination of vial capacity and number of vials

- 9 mL vials × 93
- 24 mL vials × 93
- 40 mL vials × 68

Two types of ASI-L units are available, one for 24 mL vials and the other for 9 mL and 40 mL vials.

- Optional magnetic stirrers agitate the sample in the vials to prevent the settling of suspended solids. Magnetic stirrers are installed at the measurement position and subsequent measurement position to thoroughly agitate the samples prior to measurement.

(Vials for 24mL and 40 mL are available. If 24 mL vials are used, vials No. 1 to No. 85 of the 93 total vials can be stirred.)



OCT-L 8-Port Sampler

The Bridge to Ultra-Simplified Automatic Measurement

Features

- Easy-to-use autosampler does not require special vials.

Water sample can be measured directly in the collection bottles and thus do not need to be transferred to specific size autosampler vials required with other systems.

- Up to 8 samples can be measured with a single OCT-L unit.

Up to 16 samples can be measured by adding a second OCT-L.

- Commercially available stirrers can be used. (Stirrers are sold separately.)

- Samples can be added during continuous measurement.



Wealth of Options Provides Greater Functionality

TNM-L TN (Total Nitrogen) Unit Perform Simultaneous TOC and TN Measurements

Features

- 720 °C catalytic thermal decomposition/chemiluminescence methods are adopted for TN measurement.

There is no interference from metallic ions or bromine in sea water.

- Measurements over a wide range with a detection limit of 5 $\mu\text{g/L}$ for TOC-L_{C*H} to an upper limit of 10,000 mg/L.

(In the case of simultaneous TOC/TN measurement, TOC analysis using high-sensitivity catalysts is impossible. TN measurement is not possible in combination with the SSM-5000A.)



SSM-5000A Solid Sample Combustion Unit Capable of TOC Measurements in Solid Samples

Features

- Measurement of maximum 1 g samples with up to 30 mg carbon content reduces weighing errors, and errors due to uneven distribution of the sample carbon content.

(The SSM-5000A cannot measure sea water samples and sea bottom sediment samples containing much salt.)

- Measurement of inorganic carbon (carbonate) in solid samples.

(TN measurement is not available with the SSM-5000A.)

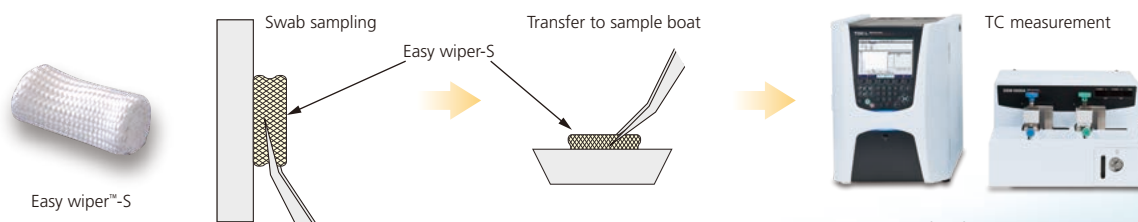
- Measurement of aqueous samples containing large quantities of suspended substances.

- Simply change the onscreen settings to switch between aqueous sample measurement with the TOC-L, and solid sample measurement using the SSM-5000A.



In addition to aqueous samples, carbon measurements can also be performed on soil, sludge, sedimentation, and other solid samples. By swabbing, the carbon in attached residues can be measured for cleaning validation. The optional Easy wiper-S is best for the wiping material.

[GMP Cleaning Validation Using the Swab Method]



Residue evaluation using swab sampling with quartz microfiber filter paper and direct combustion carbon analysis
(Please contact your local Shimadzu representative for further information.)