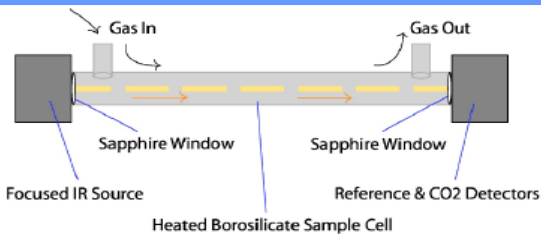


Total Organic Carbon Analyzer StarTOC[®] (k)

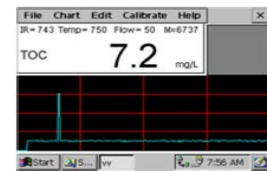
- ❖ Total organic carbon is an analyzer that measures organic carbon concentration in water samples. TOC is widely used in rivers, lakes, drinking water, and sea water. Depending on the sample and its matrix, different methods could be possible.
- ❖ Normal TOC means Non Purgeable Organic Carbon (NPOC). Also StarTOC can measure TOCtrue by using a dual detector in differential measurement (TC-TIC).
- ❖ Depending on the sample, UV/Heated Persulfate and UV/O₃ dual methods could be adaptable. Non-oxidizable samples, undiluted acids, industrial salts (up to 26%) and brine samples could be measurable by using the UV/O₃ method.
- ❖ Measuring mode can be selected: Pump or Pumpless Digital injection system.
- ❖ Depending on the controller, the system can be selected either LCD or LED control.
- ❖ Depending on the gas control mechanism, we can use MFC or manual control.



● Dual Wavelength NDIR Detector



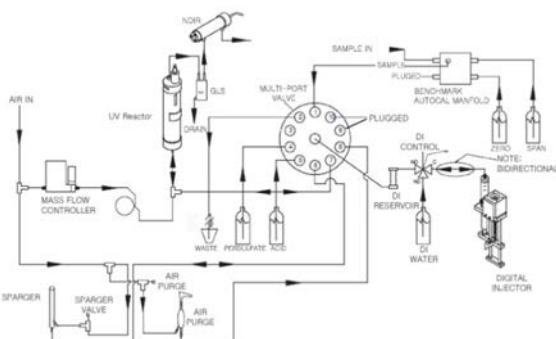
● Window CE or LED Controller



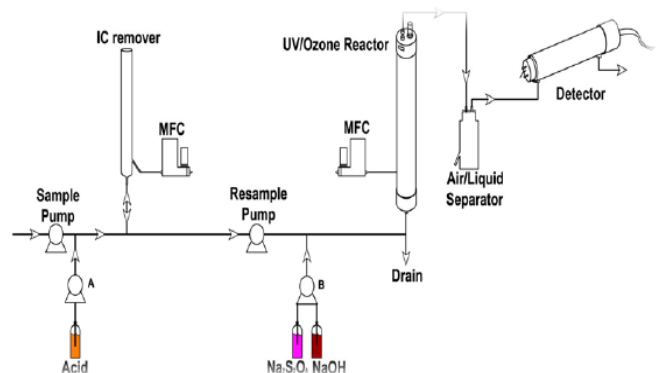
- ❖ Borosilicate glass sample cell equipped with a non-reflected dual-wavelength system.
- ❖ By using reference and sample detectors, it automatically compensates for drift.
- ❖ AGC (Automatic Gain Control) function prevents error caused by light changes, pollution in mirrors, etc.

- ❖ Touch Screen Window CE computer.
- ❖ Window CE computer function
- ❖ Paperless recorder: Graphic display
- ❖ RS-232C, RS-485 (MODBUS) Interface
- ❖ PCMCIA s/w
- ❖ Diagnostic software
- ❖ COD/BOD Correlation Kit (Option)

● Digital system configuration



● Pump System configuration

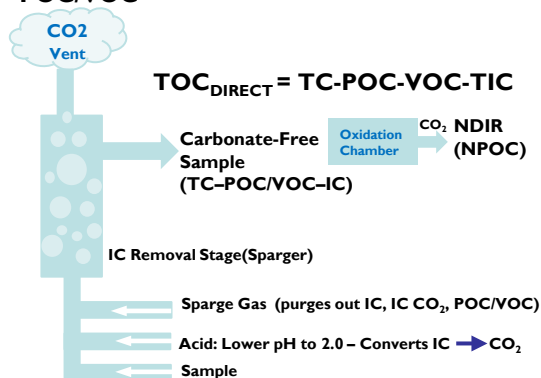


● Specification

Description	Details
Measuring Principle	UV/ heated Persulfate Oxidation or UV/O ₃ oxidation
Measuring range	0 ~ 5/10/50/100 mg/L(Higher range also available)
Oxidation	Temperature controlled UV/Persulfate Reactor or UV/Ozone reactor
Detection limit	0.05 mg/L
Accuracy	Lower than ± 2%
Analysis time	Continuous Analysis(Pump system) 10 ~ 15min (Cyclic by digital Injection system)
Repeatability	Lower than 2%
Detector	Dual wavelength NDIR detector
Measuring fluidic	Digital injection or Pump injection
Gas control	Mass flow controller or by Flow meter
Signal output	4~20mA analog, RS-232C
Auto calibration kit	Automatic and Manual calibration available. Automatic cleaning available
Operation S/W	Window CE
Bench mark	Bench mark available by option
Sample analysis	Basic 1 channel (Max. up to 6, optional)
Display	5.7" Touch screen Color LCD Monitor
Sample temp./Press.	5~35 °C / Atmospheric to 3 psig
Particle size (available)	2mm
Temp.	5~55 °C
Main Power	220 VAC ± 10%, 50/60 Hz
Protection	IP 65
Optional Item	TiTAN Macerator
	By-pass controller
	Vacuum sample system

● TOCdirect or TOCtrue

POC/VOC



CO₂ Vent NDIR(TIC)

