



Total Organic Carbon Analyzer COMPACTOC

3S Compactoc analyzer has been designed for the automatic measurement of total organic carbon in water, on different types of matrix.

The analyzer measures Total Organic Carbon in liquid samples using the EPA approved method based on UV persulfate oxidation and detection of generated carbon dioxide using a Non Dispersive Infrared Analyzer. This method meets also the requirements of European ISO/CEN guidelines. The analyzer provides this measurements on liquid samples ranging from 0-20 mg/l to 0-1000 mg/l (others on request). The analyzer is conformed to EPA, DIN, CE, ASTM, NAMUR regulations.



Applications:

- industrial wastewater
- industrial effluents
- laboratory
- effluent and influent monitoring
- boiler feed water
- condensate and cooling water
- drinking water
- surface water
- process water
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FEATURES

Compact and transportable.

Fast response, high precision and repeatability. **High stability IR detector.**

Batch analysis: programmable frequency.

The only low voltage TOC analyzer (12 Vdc – Compactoc-LV model).

Built-in internal air generator.

Touchscreen interface. Graphic recorder.

Long autonomy; low maintenance, low operating cost.

VOC (Volatile Organic Compounds) with integration of **PID Photo Ionization Detector** (option).

Software for correlation of **COD, BOD** laboratory analysis.

Robust and reliable

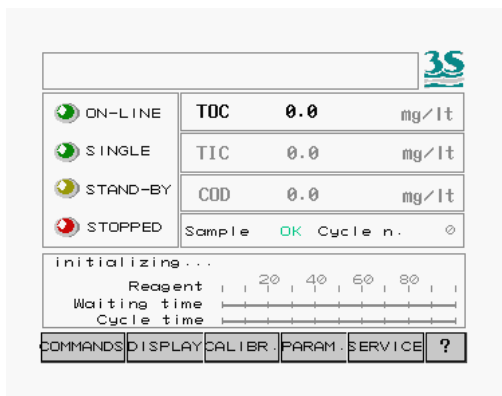
Designed for industrial and environmental on-line applications ensures the highest level of robustness in the electronics, mechanics and hydraulics components.

Easy installation and operation

To start measurement is enough to power the analyzer and connect reagents, sample and waste line.

Low reagent consumption (approx 1 cc each analysis).

GSM option.





COMPACTOC Technical Specifications

Analysis:	Total Organic Carbon TOC	Dimensions:	210 x 600 x 380 mm
Method:	Total Organic Carbon (TOC) measurement with TIC removal by acidification and spargine, sodium persulfate UV promoted oxidation, CO ₂ detection by non dispersive infrared analyzer (NDIR)	Weight:	25 kg approx. (without reagent bottle)
Ranges:	from 0-20 mg/l to 0-1.000 mg/l (others on request)	Power supply:	Compactoc :220 Vac – 115 Vac Compactoc LV: 12 Vdc
Measurement type:	batch analysis, programmable frequency	Carrier gas:	Air purifier integrated, supplied by an internal compressor
Lower detectable limit:	0,2 mg/l	Reagents:	- Sulphuric acid - Sodium persulfate (concentrations depending on range)
Accuracy:	± 2 % f.s.	Analog output / serial port:	4-20 mA, optically isolated, for measurement data RS232 output for printer or data logger
Response time:	8 minutes (depending on range)	Alarms:	2 SPDT contacts for measurements alarm and fault alarm
Environmental temperature:	5-40°C	User Interface:	touchscreen
Sample inlet pressure:	atmospheric	Protection:	IP 54

Subject to change without notice

Flow diagram :

