

Measuring system

GO-TOC 1000



Analysis and Sample Processing

GO-TOC 1000

The smallest process TOC in the world

FUNCTION

System for continuous measurement of total organic carbon (TOC) in water with automatic sample processing or analysis of single samples.

The GO-TOC 1000 is a compact and economical system for TOC determination in the product portfolio of GRÖGER & OBST. This system, designed solely for inline operation, is extremely flexible due to its extended measuring range.

OPERATING MODES

The analyser processes the sample via thermal catalytic oxidation of the carbon. The samples are introduced into an oxidation furnace and the organic constituents are converted to carbon dioxide at temperatures ranging from 850 - 950 °C. Strip and combustion gases are extracted from the atmosphere and enriched with carbon dioxide in the TOC. The resulting gas mixture is dried in a cooler and subsequently fed into an NDIR gas analyser. The measurement values are displayed in mg C/L.



SYSTEM MODELS

The standard version of this TOC analyser GO-TOC 1000 is built for inline operation with automatic acidification and removal of the total inorganic carbon (TIC). This system can also be used for manual processing of single samples.

The standard version includes a serial interface, a dilution unit, and the analysis and documentation software GO-WinSoft.

VERSATILE APPLICATION

- + Sewage treatment plant monitoring
- + Monitoring of industrial sewage
- + Drinking water control
- + Surface water testing in refineries and at airports
- + Water quality control

OPTIONS / ACCESSORY

- + Inline filter GO-RIF
- + Data logger
- + Limit contact

PERFORMANCE PROFIL GO-TOC 1000

Dosing pump	4 channel hose pump
Sample demand	125 ml/h
Analysis sample	25 ml/h
CO ₂ detector	NDIR-OPTIK-BANK
Display	4 ½ digit display
Measuring range	0 - 300 mg/l (as needed)
Reproducibility	+/- 2,5 %
Resolution	Better than 2% of measuring range
Output signal	0 - 20 mA / 4 - 20 mA / serial interface
Operating temperature oxidation furnace	850 °C
90% time (T90)	Dependent on cable lengths and parameters
Carbonate elimination	Acidification with HCl and stripping
Strip and carrier gas	Prepared ambient air
Gas cooler	Peltier cooler GO-EPK-1
Sample path materials	Ceramics, glass, Viton, PVC
Ambient temperature	+ 5 to + 30 °C
Power consumption	max. 1600 VA
Power supply	230 V, 50 Hz
Housing	Varnished aluminium case, Plexiglas front door
Dimensions (W x H x D)	690 x 590 x 440 mm
Weight	approx. 34 kg





ADVANTAGES

- ⊕ Continuous measurement acquisition
- ⊕ Measurement according to DIN 38409 and EN 1484
- ⊕ Online operation
- ⊕ Automatic sample preparation
- ⊕ Robust proven technology


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