

Measuring system



GO-TOC 100 P/L

Analysis and Sample Processing

GO-TOC 100 P/L

System for continuous measurement of total organic carbon (TOC) in water with automatic sample processing (GO-TOC 100 P) or for processing single samples (GO-TOC L), manually or with auto sampler.



FUNCTION

The analysers GO-TOC 100 P and GO-TOC 100 L analyse 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 a temperature of 850°C. A CO₂ free carrier gas flows through the furnace and absorbs the CO₂ and continually transports it out of the furnace. This carrier gas is extracted from the ambient air. The operation of the analyser system does not require bottled gas. 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 (or mg C/g for solids).

System for the measurement of total carbon (TC), total organic carbon (TOC), total inorganic carbon (TIC) or dissolved organic carbon (DOC) according to DIN 38

409 Part 3. The measurement of bound nitrogen (TNb) according to DIN 38 409 Part 27 is available as an option.

OPERATING MODES

The basis for the analysis is the thermal catalytic oxidation of the contents of the water sample. The volumes are determined by means of an infrared photometer. CO₂ is analysed in order to determine the carbon content and NO is analysed to determine the nitrogen content.

Measurement Display

The measurements are displayed in in mg C/l and/or mg N/l.

SYSTEM MODELS

GO-TOC L: Laboratory analyser for single sample analysis or in combination with an auto sampler.

Both models can be equipped or retrofitted with the systems for determination of TOC in solids or determination of bound nitrogen in water/sewage.

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

- + Model for simultaneous analysis of TOC and TNb (bound nitrogen)
- + GO-Lab software for data logging and feedback gauging
- + System for TOC analysis in solids
- + Dilution unit
- + Inline filter GO-RIF
- + Auto sampler
- + Data logger

PERFORMANCE PROFIL GO-TOC 100 P/L

Gas analyser	Ultramat 6 E / 6 E - 2 P
Measuring ranges	4, freely programmable within the measuring range ratio
Measuring range ratio	max. 1 : 20
Measuring range switching	automatic or manual
Smallest measuring range	TOC 0 – 1 mg C/l TN 0 – 100mg N/l
Measuring tolerance	1% of value (depending on range)
Reproducibility	+/- 2,5 %
Threshold values	4
Display	4 ½ digit digital display LCD
Output signal	0 / 2 / 4 - 20 mA / serial interface
Dosing pump	Perimax 4, stripping system (GO-TOC 100 P) Perixam pump (GO-TOC 100 L)
Sample flow rate	40 ml/h
Gas flow rate	24 l/h
Operating temperature oxidation furnace	850° - 950° C
Gas cooler	GO-PK 2
Time for heating up	approx. 180 Minuten
90% time	Dependent on cable lengths and parameters
Ambient temperature	+5 to +30° C
Power consumption	max. 1600 VA
Weight	approx. 95 kg
Power supply	230 V, 50 Hz
Dimensions (W x H x D)	600 x 1150 x 600 mm




OPTIONS

- + Stainless steel cabinet
- + GO-WinSoft software
- + Ultramat 6 E - 2 P for TN determination
- + System for analysis of solids
- + Filter for continuous sample processing
- + Lab scale auto sampler
- + Data logger or computer


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