

Online TOC measurement

Our TOC measuring device is used for online analysis of the total organic carbon content (TOC). It was specially developed and designed for monitoring pharmaceutical water (PW, WFI and Pure Steam condensate).

In addition to the possibility of online measurement, there is also the option of offline measurement and the performance of calibrations or system suitability tests (SST), which are required by the pharmacopoeias.



Measuring range up to 4,000 ppb

Due to the large measuring range, however, it is also possible to analyze somewhat more heavily contaminated samples.



Control via 12" touch panel

Stored data can be analyzed at any time in order to monitor the process. Access to sensitive data and settings is regulated via secure user management.



Technical Data

Measuring principle	UV oxidation, subsequent infrared detection of the CO ₂
Number of online channels	2 pieces
Measuring range	2 - 4,000 ppb (> 2,000 ppb: dosage of an oxidizing agent required)
Detection limit	< 5 ppb
Accuracy	± 5% of the measured value
Repeatability/ precision	± 1 ppb <50 ppb / ± 2% >50 ppb
Dimensions (W x H x D)	450 mm x 600 mm x 250 mm
Weight	approx. 24 kg
Degree of protection	IP 54
Power supply	220 - 240 V/AC ± 10%, 50 - 60 Hz, 180 W maximum
Ambient temperature	5 - 35°C
Humidity (relative)	10 - 95%
Online-Mode	Auto-start function after power failure Network connection (10/100 Mb/s, RJ45)
Outputs	two analog current outputs 0/4-20mA for TOC value - configurable three relay outputs: online, alarm channel 1, alarm channel 2, configurable and NAMUR-compliant
Qualification	Pharmaceutical-compliant device qualification

Technical changes and errors excepted.