



miniTOC

ON-LINE TOC CONTROL
FOR PURE WATER



ONLINE TOC CONTROL SENSOR FOR PURE WATER SYSTEMS USING HIGH EFFICIENT „DI- RECT SURFACE“ UV OXIDATION WITH INLINE CONDUCTIVITY MEASUREMENT

The **miniTOC** instrument uses the classical flow through concept for TOC online control. The efficient UV oxidation of organic compounds by „direct surface“ principle in combination with conductivity detection guarantees the high precision of the measured values.

The automatized functions of SST and calibration allow a high standard of safety and minimized operation costs in controlling the water.

Operation control is achieved on the basis of WINDOWS 7 embedded software and through a TFT touch screen. All data are encrypted and stored in a specific file for every day. The user has no possibility to manipulate the raw data.

It is an easy to use system which brings quality control at an affordable level to your lab. The **miniTOC** is a valuable accessory for all ultra pure water systems.

miniTOC can also be ordered with interval measuring. With that option up to 3 measuring points or loops can be controlled online with only 1 system. The interval can be configured by the user.



CALIBRATION

Calibration can be done by the user himself. For calibration of the miniTOC instrument the online control mode has to be stopped and the calibration is performed.

The operator has to connect the inlet with the calibration standard solution and the diluting water sample. The programmable procedure of the calibration steps will be performed automatically.

The statistical evaluation of the measurements and the corresponding calibration parameters will be shown on the screen (plausibility test).

SYSTEM SUITABILITY TEST – SST

The verification of the TOC results according to requirements of USP and Ph.Eur are realized by the periodical performance of the System Suitability Test.

The software of the miniTOC instrument enables the user to perform SST by himself by using the automatic procedure and data evaluation of the test.



MINITOC ADVANTAGES

- QUICK REACTION TIME
- CONTINUOUS MEASUREMENT
(EVERY 2 SECONDS)
- HIGH EFFICIENT OXIDATION USING
LONG LASTING UV LAMP (12 MONTH)
- EASY TO CALIBRATE
- EASY TO REALIZE SST
- VIEWER - ALL DATA ARE SAVED

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PURE WATER



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TOC

TOTAL ORGANIC CARBON ANALYZER

TECHNICAL SPECIFICATIONS

Configuration

- control internal PC, 8" TFT touch screen monitor
- operating system Windows 7 embedded
- software miniTOC control software for measurement, qualification, diagnosis
- interfaces USB 2.0, analogue out (option)

Analysis

- method UV oxidation (partial); Conductivity (difference)
- detection limit 0,5 ppb / 1%, whatever is greater
- measurement range 0,5 - 1000 ppb
- ports 1 for sample, 1 for SST (Basic)
- 1 for sample, 3 for SST (Professional)
- max. conductivity of sample < 2 $\mu\text{S}/\text{cm}$
- sample volume flow 14 ml/min
- analysis time 2 sec
- sample temperature 10 - 50 °C

Housing

- dimensions (w x d x h) 300 mm x 200 mm x 500 mm
- weight 14 kg

Operating Conditions

- power supply 110 - 230 VAC, 50 Hz
- power consumption < 50 W
- ambient relative humidity 10 - 95 %

Options

- Viewer software can be used on external PC for report and print of measured data
- heat exchanger for water temperature > 50 °C



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