

TOC-Monitoring Device „miniTOC“

for monitoring the production of pure or ultrapure water contamination with organic components



item number: 10111578



functionality:

- constantly monitors the total organic carbon (TOC) content in the water using an NDIR sensor
- uses the high-velocity flow concept and efficient „direct surface“ UV oxidation, in which organic carbon compounds in the water are oxidized in a UV reactor using UV radiation
- quick monitoring of conductivity detection
- determination of the TOC value by conductivity measurement before and after UV oxidation

color screen:

- to display the measured values

configurations:

- online- and offline-configurations possible
- configurations with 2 or 4 (miniTOC pro) inputs possible
- variant with 4 inputs can monitor up to 3 test loops one after the other with an additional software update
- interval duration configurable

autosampler:

- offline version expandable with autosampler with 15 positions for 100 ml sample tubes

control of the sample inflow:

- If the sample flow is interrupted, the system triggers an alarm and the system is stopped.

heat exchanger:

- is required if the inlet temperature of the media is more than 50 °C

pressure reducer:

- is required when the inlet pressure of the media is more than 1 bar

IP54:

- The device is protected against dust and splash water by IP54.

21 CFR part 11 Software:

- software with 21 CFR part 11 compliance for pharmaceutical applications

extended conductivity range:

- extended sample conductivity up to 10µS/cm

technical specifications:

method & proof:	uv oxidation & conductivity
sample flow rate:	approx. 14 ml/min
period of measurement:	2 sec (online-mode) 1 min + 5 min washing (offline-mode)
measuring range:	0,5 to 1000 ppb
detection accuracy:	< 50 ppb ±0,5 ppb > 50 ppb ±1 %
ports:	1 for pattern 1 for SST (Basis) 1 for sample 3 for SST (Pro)
related standards:	USP <643>, EP 2.2.44, DIN EN 1484
environmental parameters:	relative humidity: 10 to 95 % temperature: 10 to 45 °C
interface ports:	analogous (0 - 20 mA), to namur NE43
dimensions:	300 x 200 x 500 mm
weights:	14 kg
power connection:	110 - 230 V, 50 Hz, 60 Watt

feed water requirements:

type of sample:	pure to ultra pure water
sample input	< 2 µS/cm
conductivity:	(expandable auf < 10 µS/cm)
inlet pressure:	< 0,5 bar
sample temperature:	< 50 °C

We reserve the right to make changes to products or technical specifications.