HORIBA TOCADERO

Methods & Detection

continuous flow with UV oxidation
and conductivity detection

Cycle Time

1 sec. (on-line Method)
1 min. + 1 min. rinsing (off-line Method)

Sample Flow

app. 14 ml/min

Measurement Range

0,5 - 1.000 ppb TOC
application-dependent up to 2.000 ppb TOC

Accuracy

± 0,5 ppb on-line
< 2 % manually

Connections

1 x Sample, 1 x Check
1 x Sample, 3 x Check (Optional)

Normalizations

USP <643>, EP 2.2.44, JP, CP

Environmental Conditions

Relative humidity: 10 - 80 % non condensing
Temperature: 10 - 45 °C

Dimensions | Weight | Power

338 x 200 x 450 mm, 11 kg,
110 - 230 V +/- 10 % VAC, 47 - 63 Hz, 60 Watt

Sample Type

Pure Water (PW) & Ultra Pure Water (UPW),
Water for Injection (WFI), boiler feed water

Conductivity Sample

< 2 µS/cm
Application-dependent up to < 10 µS/cm

Input Pressure

< 0.5 bar

Sample Temperature

< 50°C

Interfaces

2 x analog (0/4 - 20 mA), according to Namur NE43
1 x Relais (Collective error)
RJ45 Ethernet, USB

Optional: 2 additional analog outputs,
2 additional relay outputs

On-Line / Off-Line TOC Analyzer for the low measuring range

TOCADERO EVO

Version-No. E22002

HORIBA TOCADERO | Johann-Hittorf-Str. 8, 12489 Berlin, Germany | T +49 (0)30 6392 3150, F +49 (0)30 6392 3151 | info@tocadero.com, www.horiba-tocadero.com

QUALITY

Monitoring organic pollution by measuring the TOC of pure and highly purified water is a basic requirement for quality assurance in microelectronic and pharmaceutical production. Even water in the power plant sector and the chemicals industry increasingly requires online monitoring of this parameter. For the early detection of problems in these sensitive areas, the most important prerequisite is a quick response by monitoring systems. TOC sensors based on UV oxidation and conductivity detection are ideally suited for this. Monitoring the water for cleaning and rinsing production plants (clean-in-place, CIP) in the aforementioned application area is a domain of responsive TOC analyzers.

PW, UPW und WFI

In the pharmaceutical application area, different water qualities are also defined according to the various pharmacopoeias (pharmacopoeia, e.g. European Pharmacopoeia, USP). PW (purified water), HPW (highly purified water) and WFI (water for injection) are common qualities.

The differential conductivity analyzers have established themselves on the market as the way to continuously check this water in accordance with pharmaceutical requirements. In addition to the technical structure, particularly important aspects include availability, reliability and easy maintenance.

The advantages at a glance

- Simple and fast measuring method with the best cost-performance ratio
- Response time in the range of seconds with continuous online measurement
- Reagent-free analysis guarantees minimal operating costs
- Low sample consumption
- Nine-month lifetime guarantee for UV lamps
- Manual single measurements of samples in offline mode (grab sample)

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The manufacture and quality control of the analytical technology at HORIBA Tocadero ensure the highest level of reliability. The software supports users through dialog boxes, is clearly structured and contains a wide range of functions for quality assurance and self-diagnosis. The system is calibrated automatically and includes a plausibility check. The analyzer is handy and allows for mobile use. The few fluid and electrical connections enable quick assembly and high flexibility.

The comprehensive after-sales service from HORIBA Tocadero ensures application support with high availability. Optional components allow the analyzer to be adapted to specific measurement tasks.

- Compact design and 12 V DC supply enable mobile use
- Advanced quality management (AQM) based on the diagnostic data and plausibility check
- Ensuring precise measured values through automatic zero-point adjustment

HORIBA Tocadero offers reliable, sophisticated technology and expert support as required.
MADE in Germany