

# Low-range TOC analyzer CA79

## Precise online TOC monitoring in the life sciences industry



More information and current pricing:

[www.casc.endress.com/CA79](http://www.casc.endress.com/CA79)

### Benefits:

- **Real-time overview of water quality:**  
The CA79 TOC analyzer measures continuously providing a fast response time ( $t_{90}$ ) of 50 seconds. This enables you to react immediately and to protect your product effectively.
- **The online analyzer uses proven UV oxidation and differential conductivity measurement** which has become the most-established method for TOC trace analysis in ultrapure water.
- **Compliance:**  
CA79 meets the requirements of the European and US Pharmacopeias and allows working according to FDA 21 CFR Part 11. CA79 provides clear documentation of relevant events, regular quality reports and system suitability tests (SSTs).
- **The analyzer's maintenance-friendly design in combination with our worldwide service network offers you complete support for the measuring point, including the installation qualification (IQ) and regular operational qualifications (OQ).**

### Specs at a glance

- **Measurement range** 0.5 to 1 000  $\mu\text{g/l}$  (ppb)
- **Process temperature** < 50 °C (122 °F)
- **Process pressure** max. 0.5 bar (7.25 psi)
- **Measuring method** TOC determination by UV digestion and measurement of the differential conductivity

**Field of application:** The total organic carbon (TOC) content is an important quality parameter in the production and use of ultrapure water. If the TOC content is too high, the performance of water purification systems can be impaired or pharmaceutical batches can even

be contaminated. The CA79 online TOC analyzer provides continuous, accurate TOC monitoring of your water for injection (WFI). Your product batches can be produced safely and in compliance with regulations.

## Features and specifications

### Analyser

**Measuring principle**

Differential conductivity

**Characteristic**

Total carbon (TOC) analyzer for trace levels

**Measuring method**

TOC determination by UV digestion and measurement of the differential conductivity

**Size**

Housing:

500 x 290 x 200 mm

19.68 x 11.41 x 7.87 in

**Design**

Stainless steel housing;

IP 42 (standard), IP54 (optional)

**Process temperature**

< 50 °C (122 °F)

**Ambient temperature**

-5 to 50 °C (23 to 122 °F)

**Process pressure**

max. 0.5 bar (7.25 psi)

**Sample flow rate**

Min. 5 ml/min (0.17 fl.oz/min)

**Consistency of the sample**

max. conductivity 2 µS/cm, particle free

## Analyser

### Specials

The operating concept and data storage meet the requirements of 21 CFR, Part 11

UV reactor with continuous function monitoring

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### Application

Determination of total carbon in ultrapure water applications, e.g. in the life science industry, that meet the following conditions:

Conductivity < 2  $\mu\text{S}/\text{cm}$

pH range: neutral

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### Power supply

100/240 V AC, 47 - 63 Hz

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### Output / communication

0/4 to 20 mA, galvanically isolated

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### Input

1 to optional 3 measuring channels

Optional control input 24 V (for 1 channel instruments)

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### Measurement range

0.5 to 1 000  $\mu\text{g}/\text{l}$  (ppb)

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