Low-range TOC analyzer CA78

Precise online TOC monitoring in power plants and semiconductor production

Benefits:

- Real-time overview of water quality:
- The online TOC analyzer measures continuously with a fast response time (t_{90}) of 50 seconds. This enables you to react immediately to potential water contamination and to protect your product effectively.
- CA78 uses proven UV oxidation and differential conductivity measurement which is the most-established method for reliable TOC trace analysis in ultrapure water.
- The analyzer's maintenance-friendly design in combination with our worldwide service network offers you complete support for the measuring point, from commissioning throughout the entire lifespan of the device.
- Perfect adaption to your process needs: Select between the high-precision 2 µS/cm conductivity version and the robust version that tolerates 10 µS/cm. Reduce your investment costs by the optional 3 channel configuration.

Specs at a glance

- Measurement range 0.5 to 1 000 µg/l (ppb)
- Process temperature < 50 °C (122 °F)</p>
- 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: Total organic carbon (TOC) content strongly influences the quality of ultrapure water. A high TOC concentration can cause damage of water purification systems or compromise the required water quality. The CA78 online TOC analyzer provides continuous, accurate TOC monitoring ensuring consistently high quality of the





More information and current pricing: www.endress.com/CA78

ultrapure water used in your production processes. You gain full control of your product yield and quality.

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, optional: max. 10 µS/cm; particle free

Analyser

Specials

UV reactor with continuous function monitoring

Application

Determination of total carbon in ultrapure water applications, e.g. in the power or semiconductor industry, that meet the following conditions: Conductivity < 10 μ S/cm pH range: neutral

Power supply

100/240 V AC, 47 - 63 Hz

Output / communication

0/4 to 20 mA, galvanically isolated

Input

1 to optional 3 measuring channels Optinonal control input 24 V (for 1 channel instruments)

Measurement range

0.5 to 1 000 µg/l (ppb)

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