

Sartorius TOC Instrument

Electronic Analyzer for Determination of the TOC Content of Ultrapure Water



Description

The arium® 611 TOC instrument is a stand-alone analyzer for exact determination of the TOC content of ultrapure water from one or more sources.

Measuring Range

The measuring range of the TOC instrument is 1 to 300 ppb TOC. The instrument has three operational modes:

- **Automatic measurement**
The instrument performs and displays measurements continuously.
- **Manual measurement**
The instrument performs and displays three measurements in succession and then switches to Standby to reduce water consumption.
- **Standby mode**
The unit is switched on, but performs no measurements; no water passes through the unit. The last measured value remains on the display.

Easy Handling

The TOC instrument features a display indicating current measured data and the software functions that you can select using two function keys.

RS-232C Interface | Analog Current Loop Interface (4–20 mA)

The TOC instrument is equipped with two output ports: RS-232C and 4–20 mA.

Using an RS-232C interface, you can output measured values to a PC or printer for further processing or documentation. To view the values on a PC, we recommend you use the HyperTerminal program integrated in the Windows operating system. The TOC value is printed with the date and time of the measurement.

Specifications

Requirements for feed water

| | |
|----------------------|--------------|
| Inlet pressure | 1–4 bar max. |
| Temperature | 5–30°C |
| Resistance | > 5 MΩ × cm |
| Electr. conductivity | < 0.2 μS/cm |

Performance

| | |
|-----------------|--|
| Working range | 1–300 ppb TOC |
| Display | 0.5 increment for: 1–9.5 ppb 1 increment for >10 ppb |
| Accuracy | >15 MΩ × cm feed water: ± 15% or ± 1 ppb >5–15 MΩ × cm feed water: ± 20% or ± 3 ppb |
| Reproducibility | ± 5% (for feed water >15 MΩ × cm) ± 10% (for feed water 5–15 MΩ × cm) |

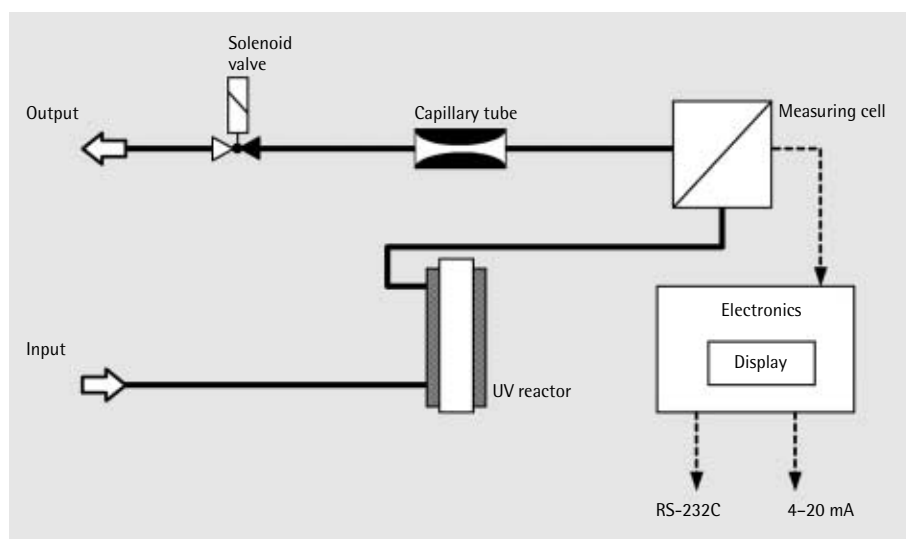
| | |
|-----------------------------|---|
| Operational requirements | unpressurized |
| Power supply | 100–240 V~, 47–63 Hz |
| Operating voltage | 12 volts |
| Power consumption (typical) | approx. 2.4 VA |
| UV lamp | Low-pressure mercury lamp with reflective measuring chamber |
| Operating temperature | 10–30°C |
| Storage temperature | 2–50°C |
| Dimensions | 120 × 200 × 60 mm (H × W × D) |
| Total weight | 1 kg |

Laboratory Water System

Ordering Information

| Order No. | Description |
|-----------|---|
| 611ATOC1 | TOC instrument with accessories incl. printer cable for the serial interface port and jack plug for the analog current loop interface |

Flow Chart



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