



EZ7104 Total Organic Carbon (TOC) Analyser, 1 stream, Modbus RS485

Product #: EZ7104.990A1C02

NZD Price (Incl. GST): Contact Hach



Online, automatic TOC or TC monitoring for wastewater and surface water applications

Proprietary discontinuous analysis

The EZ7100 Series are designed to run a discontinuous analysis on Total Organic Carbon or Total Carbon levels, reducing significantly reagent consumption but also overall maintenance costs. Additionally a rinsing or cleaning cycle can be introduced to eliminate cross-contamination and fouling.

Smart features and reduced calibration intervals

In the controller-database software, all necessary smart automatic features are already embedded: auto-calibration, auto-validation, auto-cleaning and auto-priming. In order to assure optimal analytical performance, it is recommended to calibrate the EZ7100 Series monthly or quarterly simply by starting the calibration sequence via the panel PC.

The mainframe of the EZ7100 Series is a compact and straightforward design running a hot UV/persulphate destruction for determination of organic purity in various water applications, with the following distinctive features:

- Options for TOC or TC analysis
- Discontinuous analysis with programmable frequency
- Smart automatic features
- Control and communication via industrial panel PC
- Standard 4 - 20 mA signal output with alarm processing
- Communication ports supporting connectivity to Modbus
- Multiple stream analysis

There are many additional options available. Please contact Hach for more details.

Specifications

Alarm:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Ambient Temperature:	10 - 30 °C ±4 °C deviation at 5 - 95% relative humidity (non-condensing)
Calibration:	Automatic, 2-point; frequency freely programmable
Certifications:	CE compliant / UL certified

Cooling water:	Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar
Cycle Time:	15 - 30 minutes, depending on range; frequency freely programmable
Demineralised water:	For rinsing and calibration purposes
Digital outputs:	Modbus RS485
Dimensions (H x W x D):	690 mm x 465 mm x 330 mm
Drain:	Atmospheric pressure, vented, min. Ø 64 mm
Earth connection:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm ²
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interferences:	Chloride > 1 g/L affects oxidation efficiency. Volatile organic compounds evaporate in the TOC configuration. Fats, oil, proteins, surfactants and tar.
Lower Limit of Detection (LOD):	≤ 40 mg/L
Material:	Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanised steel, powder coated
Measurement method:	Hot UV/persulphate method, conform with ISO 8245, USEPA 415.2, ASTM D4839-03 and DIN-EN 1484
Number of sample streams:	1 stream Optional: 1 to 8 streams
Output:	Modbus RS485 Optional: Active 4 - 20 mA max. 500 Ohm load, 1 to 8 outputs RS232, Modbus TCP/IP
Parameter:	TOC (Total Organic Carbon)
Power:	220 - 240 VAC, 4 A, 50/60 Hz Max. power consumption: 440 VA; Other voltages available on request
Precision:	Better than 2% full scale range for standard test solutions
Protection Class:	Analyser cabinet: IP55 / Panel PC: IP65
Range:	200 - 5000 mg/L C
Reagent Requirements:	Keep between 10 - 30 °C
Sample Flow Rate:	100 - 300 mL/min
Sample Pressure:	By external overflow vessel
Sample Quality:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Sample Temperature:	10 - 30 °C
Validation:	Automatic; frequency freely programmable
Warranty:	1 year
Weight:	25 kg