EZ2000 Total Aluminium Analyser, 1 stream, Modbus RS485

Product #: **EZ2000.990A1C02**

NZD Price (Incl. GST): Contact Hach

Online colorimetric analysis of Total Aluminium in water

EZ2000 Total Aluminium Analysers achieve excellent precision and accuracy. At the heart of the colorimeter there is a compact photometer assembly developed especially for the EZ Series. Consumption of reagents is reduced by low volume analysis, yet high sensitivity is assured by a long optical path length. The limit of detection is in the low µg/L range.

EZ2000 Total Aluminium Analysers have an internal digestion unit. This additional step prior to analysis allows to measure non-soluble or complexed metal species.

Results you can rely on

Smart automatic features for calibration, validation, priming and cleaning are embedded in the controller software and contribute to analytical performance, maximised uptime and negligible operator invervention. Precision micropumps dose all reagents. Sample lines and analysis vessel are cleaned with demineralised water to eliminate cross contamination between samples. Electronic and wet-chemical part of the analyser are strictly separated. A transparent door allows for instant visual inspection of the wet part.

Flexibility that meets your needs

EZ Series Aluminium Analysers come in an attractive, ergonomic mainframe with a compact footprint. All hardware is controlled by the integrated industrial panel PC. The modular build allows for the analyser to match your application and operational needs.

- The standard measuring range can be narrowed by a different calibration range or extended via internal dilution options.

- Analogue and digital output options

- Multiple stream analysis for up to 8 sample streams

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:	20 min Total Al (dilution + 5 min)
	30 min Total Al & Al (III)
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:	Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.
Lower Limit of Detection (LOD):	≤ 10 µg/L
Material:	Hinged part: Thermoform ABS, door: plexiglass
	Wall section: Galvanised steel, powder coated
Measurement method:	Colorimetric measurement using pyrocatechol violet method at 578 nm
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:	Aluminum, total
Power:	220 VAC / 50 Hz
Precision:	Better than 2% full scale range for standard test solutions
Protection Class:	Analyser cabinet: IP55 / Panel PC: IP65
Range:	10 - 150 µg/L Al
	Optional:
	10 - 75 µg/L
	80 - 600 µg/L (with internal dilution)
	160 - 1500 µg/L (with internal dilution)
	1000 - 3000 µg/L (with internal dilution)
Reagent Requirements:	Keep between 10 - 30 °C
Sample Flow Rate:	100 - 300 mL/min
Sample Pressure:	By external overflow vessel
Sample Temperature:	10 - 30 °C
Validation:	Automatic; frequency freely programmable
Warranty:	1 year
Weight:	25 kg