



EZ3016 Sodium Analyser

Product #: EZ3016.XXXXXXXXXX
ZAR Price: Contact Hach

Online ion-selective Sodium measurements in industrial and environmental applications

ISE technology for optimal analytical performance

With limited maintenance requirements and reduced reagent consumption, the EZ3000 Series are the ideal choice for a wide range of water monitoring applications where ion-selective electrodes are the preferred analytical technique. Outstanding precision and stability is guaranteed by the temperature-controlled measurement.

Direct, discontinuous ISE method

The EZ3000 Series uses discontinuous ISE analysis which enhances control over conversion of ion activity to electric potential. It also eliminates risk of cross-contamination between cycles and reduces overall reagents consumption.

The EZ3000 Sodium Analysers combine unique technology with a set of analysis, control and communication features in an industrial analyser mainframe with designed for the highest

performance:

- Smart automatic features
- Control and communication via industrial panel PC
- Analogue and digital output options
- Multiple stream analysis (up to 8 streams)

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

Specifications

Alarm:	1x malfunctioning, 4x 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)
Analogue Outputs:	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Automatic cleaning:	Yes
Calibration:	Automatic, 2-point; frequency freely programmable
Certifications:	CE compliant / UL certified

Cycle Time:	5 minutes
Demineralised water:	For rinsing
Digital outputs:	Optional: Modbus (TCP/IP, RS485)
Dimensions (H x W x D):	690 mm x 465 mm x 330 mm
Drain:	Atmospheric pressure, vented, min. Ø 32 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:	Silver ions (Ag ⁺) must be absent. The sodium electrode is sensitive to the following ions. The ratio of these ions to sodium (X ⁺ /Na ⁺) should thus not be larger than the value in brackets: H ⁺ (< 0.001), Li ⁺ (<1), K ⁺ (< 5), NH ₄ ⁺ (< 50), Mg ²⁺ (< 2000). Fats, oil, proteins, surfactants and tar.
Lower Limit of Detection (LOD):	≤ 10 mg/L
Material:	Hinged part: Thermoform ABS, door: PMMA Wall section: Galvanised steel, powder coated
Measurement method:	Discontinuous, direct measurement by combined ion-selective electrode
Measuring range:	100 - 1000 mg/L Na ⁺ Optional: 25 - 250 mg/L 50 - 500 mg/L
Number of sample streams:	1, 2, 4 or 8
Parameter:	Sodium
Power:	100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA
Power supply:	100 - 240 VAC, 50/60 Hz
Precision:	Better than 3% full scale range for standard test solutions
Protection Class:	Protection class: Analyser cabinet: IP44 / Panel PC: IP65
Range:	100 - 1000 mg/L Na ⁺
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:	12 months
Weight:	25 kg