



EZ7251 Volatile Fatty Acids (VFA) & Alkalinity Analyser

Продукт №: EZ7251.XXXXXXXXXX
BGN Цена: Свържете се с нас

Online, automatic monitoring of critical process parameters and process efficiency in anaerobic digesters

A new control alternative for anaerobic digestion

Due to the expensive or time-consuming character of most analysis methods for anaerobic processes, industrial digesters are usually not adequately monitored. Developed specifically for monitoring anaerobic digesters, the EZ7200 Series bring the possibility of implementing new control alternatives to typical operating problems in mid to large scale digesters.

Critical parameter monitoring, online and automatic

Anaerobic digesters require monitoring of a specific set of critical parameters in order to obtain optimal production efficiency, compliance and biogas yield. The primary parameter is volatile fatty acids (VFAs), representing the metabolic condition of the anaerobic digester and responding quickly to stress induced changes, combined with alkalinity.

The EZ7200 Series are easy-to-operate online titrators using a unique and robust method for measuring the critical process parameters in one single run, enabling insight as well as full control over the anaerobic process:

- Direct titration with minimum volatilisation
- Continuous monitoring of the anaerobic process
- Enabling higher loading rate for maximum CH₄ production
- Prevention of digester failure due to VFA accumulation
- Easy implementation within a dynamic control strategy
- Easy integration into corporate networks

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

Спецификации

Demineralised water:	N.A.
Digital outputs:	Optional: Modbus (TCP/IP, RS485)
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
Precision:	Better than 3% full scale range for standard test solutions

Reagent Requirements:	Keep between 10 - 30 °C
Rinsing:	With tap water
Validation:	Automatic; frequency freely programmable
Аварийен сигнал:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Аналогови изходи:	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Бр. потоци проби:	1, 2, or 4
Гаранция:	24 месеца
Граница на откриваемост:	≤ 10 mg/L
Дренаж:	Atmospheric pressure, vented, min. Ø 32 mm
Захранване:	100 - 240 VAC, 50/60 Hz
	Max. power consumption: 120 VA
Измерване метод:	Acid-base titration
Измерване, диапазон:	VFAs 20 - 1000 mg/L as acetate equivalent;
	Alkalinity, total and Alkalinity, partial 50 - 2500 mg/L as CaCO ₃
Какво има в кутията:	EZ7251 VFA & Alkalinity Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x pH Electrode, Routine S7 Connection, 1 x empty 2.5L Reagent Container with Fittings (Anti-foam Solution) and 2 x empty Reagent Containers with Fittings (H ₂ SO ₄ & NaOH Solution)
Калибриране:	Automatic; frequency freely programmable
Клас на защита:	Analyser cabinet: IP44 / Panel PC: IP65
Кювети за проба:	10 - 15 minutes
Материал:	Hinged part: Thermoform ABS, door: PMMA
	Wall section: Galvanised steel, powder coated
Метод, име:	Titrimetric
Околна температура:	10 - 30 °C ±4 °C deviation at 5 - 95% relative humidity (non-condensing)
Параметър:	Volatile fatty acids (VFAs), total alkalinity
Проба, дебит:	100 - 300 mL/min
Проба, качество:	Maximum particle size 500 µm, < 0.1 g/L
	Most applications require the use of an EZ9130 sampling/filtration system.
Проба: налягане:	By external overflow vessel
Размери (В x Ш x Д):	690 mm x 465 mm x 330 mm
Сертификати:	CE compliant / ETL certified
Смущения:	Phosphates and similar dissociating ions and non-fatty acids which on acidification from undissociated acids may cause interference. Sulphide may deteriorate some types of pH electrodes. Fats, oil, proteins, surfactants and tar.
Тегло:	25 kg
Температура на проба:	10 - 30 °C

Какво има в кутията

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