

EZ7250 Volatile Fatty Acids (VFA) Analyser, 1 stream, Modbus RS485

Produto n.º: EZ7250.99001C02

EUR Preço: Contacte-nos

Contactar para obter data de envio

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 bicarbonate and 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.

Especificações

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|------------------------|---|
| Alarmes: | 1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts |
| Calibração: | Automatic; frequency freely programmable |
| Caudal da amostra: | 100 - 300 mL/min |
| Certificações: | CE compliant / UL certified |
| Ciclo de medição: | 10 - 15 minutes |
| Classe de proteção: | Analyser cabinet: IP55 / Panel PC: IP65 |
| Conteúdos: | EZ7250 VFA, Bicarbonate & 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 10L Reagent Containers with Fittings (H ₂ SO ₄ & NaOH Solution) |
| Demineralised water: | N.A. |
| Dimensões (A x L x P): | 690 mm x 465 mm x 330 mm |
| Dreno: | Atmospheric pressure, vented, min. Ø 64 mm |

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| Earth connection: | Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm ² |
| Exactitud: | Better than 3% full scale range for standard test solutions |
| Gama de medição: | VFAs 10 - 500 mg/L as acetate equivalent; Bicarbonate 1 - 50 meq/L or 5000 mg/L as CaCO ₃ ; Alkalinity, total and Alkalinity, partial 1 - 50 meq/L or 5000 mg/L as CaCO ₃ . |
| Garantia: | 2 anos |
| Instrument air: | Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air |
| Interferencias: | 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. |
| Limite de deteção: | ≤ 10 mg/L |
| Material: | Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanised steel, powder coated |
| Método de medição: | Acid-base titration |
| Número de Corrientes de muestra: | 1 stream Optional: 1 to 8 streams |
| Parâmetro: | Volatile fatty acids (VFAs), bicarbonate, total alkalinity, partial alkalinity |
| Peso: | 25 kg |
| Potência/Energia: | 100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA |
| Pressão da amostra: | By external overflow vessel |
| Qualidade da amostra: | Maximum particle size 500 µm, < 0.1 g/L Most applications require the use of an EZ9130 sampling/filtration system. |
| Reagent Requirements: | Keep between 10 - 30 °C |
| Rinsing: | With tap water |
| Saída: | Modbus RS485 Optional: Active 4 - 20 mA max. 500 Ohm load, 1 to 8 outputs RS232, Modbus TCP/IP |
| Saídas digitais: | Modbus RS485 |
| Temperatura ambiente: | 10 - 30 °C ±4 °C deviation at 5 - 95% relative humidity (non-condensing) |
| Temperatura da amostra: | 10 - 30 °C |
| Validation: | Automatic; frequency freely programmable |

Conteúdos

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