

Highly qualified manufacturing personnel guarantees to the client the final product of the most sophisticated standards



PRODUCTS

R&D Autoclavable & SIP Fermenters-Bioreactors

Pilot & Industrial Bioreactors - Fermenters

Process Plants

Controllers

Combined CO₂ and O₂ Gas Analysers

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Gas Analyser

Solaris Gas Analysers are a combined CO₂ and O₂ analyser, specifically designed to be used in fermentation processes.



O₂ and CO₂ are the gases whose rates of consumption or production are most frequently measured for the purposes of study and process control (energetic metabolism, substrate utilisation, etc.). The measuring ranges of the GA analyser (0+10 or 15% for CO₂, and 21+10% for O₂) have been chosen specifically for your application. The system is based on well-proven, high quality transducers, and is characterised by an extremely reduced internal volume, to reduce overall response times.

O₂ concentration in the sample is measured by means of a transducer based on the zirconium dioxide properties of this gas, whereas CO₂ determination is based on the measurement of absorption of infrared (IR) radiation.

Solaris GA is equipped with an inlet line selector (multiplex) that allows the unit to be connected with up to 12 bioreactors, and includes a pump for gas sampling and a gas drying device.

Features:

Acquisition of data in real time and conversion of the signals from the sensors applied to the process into values expressed in the specific units of measurement of each variable.

Continuous graphic representation of the the behaviour of O_2 , CO_2 , OUR, RQ, with possibility of changing configuration, scale, dynamic zoom and exporting graphs on a printer.

Channel Configuration with possibility to set the reading parameters of gas to analyse.

Probes Calibration

Temperature Compensatio

Calculation of: OUR (Oxygen Uptake Rate), CER (Carbon Dioxide Evolution Rate) and RQ (Respiratory Quotient)

