

ANALOX GL6

Multiassay Analyser
for industrial applications



- **Fast determination of:**
 - Glucose**
 - Lactate**
 - Ethanol**
 - Glycerol**
 - Methanol**
- **Printed result 20 in seconds**
- **Microlitre sample**
- **Simple YES/NO operation**
- **Word display for user guidance and self-test functions**
- **Simple reagent changeover procedure**
- **RS232 interface plus software option**
- **Compact system (only 3.8Kgs)**



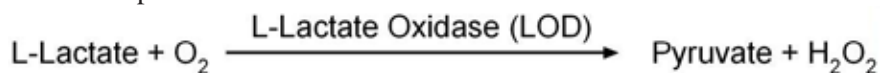
Lightweight and easily transportable for use at different locations within the plant

A compact, simple-to-operate instrument for ultra-rapid measurement of key analytes. Applications include food & beverage, pharmaceutical, biotechnology and other industrial production/process control facilities.

Analytical Principle

The GL6 Multiassay Analyser measures the rate of oxygen uptake in the reaction between sample substrate and its specific oxidase. Under the assay conditions, this is directly proportional to analyte concentration.

Example: Lactate in milk or milk products



Analytical Options

The Model GL6 incorporates analysis programs for glucose, lactate, ethanol, glycerol and methanol. The user can alter the analyte of choice via a fast and simple reagent changeover procedure.

Operation

After single point calibration with a standard of the selected analyte, injection of a sample is all that is needed to obtain a result and prepare the analyser for the next analysis. Sample injection via an accurate positive displacement pipette triggers the complete analytical cycle and a hard-copy result is then printed in approx 20 seconds. Typical sample sizes are 5-10ul. Most aqueous samples can be used. Turbidity or opacity does not present a problem. Carbonated beverages are simply degassed before analysis. High concentrations require a simple pre-dilution.

Analyses are menu-driven via the 32-character display which guides the operator through the complete analytical procedure. Subsidiary menus are reached via the YES and NO buttons which enables the user to optimise operational modes, utilise special functions and perform statistical data analysis. The display also provides self-test diagnostics in relation to electrode status and reagent activity.

Changeover between analyte reagents is quickly and simply effected and all fluid pathways within the analyser can be rapidly sterilised without compromising performance.

Typical Analytical Performance

	Linearity/Range	Repeatability, SD
Glucose	0-0.5%W/V (5g/L) direct injection; 0-14%W/V with 1:25 dilution*	±0.01g/L@2g/L
Lactate	0-0.09%W/V (0.9g/L) direct injection; 0-2%W/V with 1:25 dilution*	±0.005g/L@0.9g/L
Ethanol	0-0.3%W/V (3g/L) direct injection; 0-8%W/V with 1:25 dilution*	±0.2g/L@40g/L
Glycerol	0-4%W/V (40g/L) with 1:35 dilution*	±0.1g/L@20g/L
Methanol	0-4%W/V (40g/L) with 1:100 dilution*	±0.2g/L@20g/L
* higher concentrations by increased dilution		

Instrument Specifications

Method	Enzymatic oxygen-rate
Sensor	Clark-type amperometric oxygen electrode
Reaction Temperature	30°C
Display	32 character backlit LCD
Printer	16 column dot matrix, 1 line/sec
Interface	Serial data port, optional Windows software available
Power	100-250V AC, 50-60Hz, 12-15V DC, 60VA
Dimensions	23cm (width) x 29cm (depth) x 15cm (height)
Weight	3.8Kgs

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