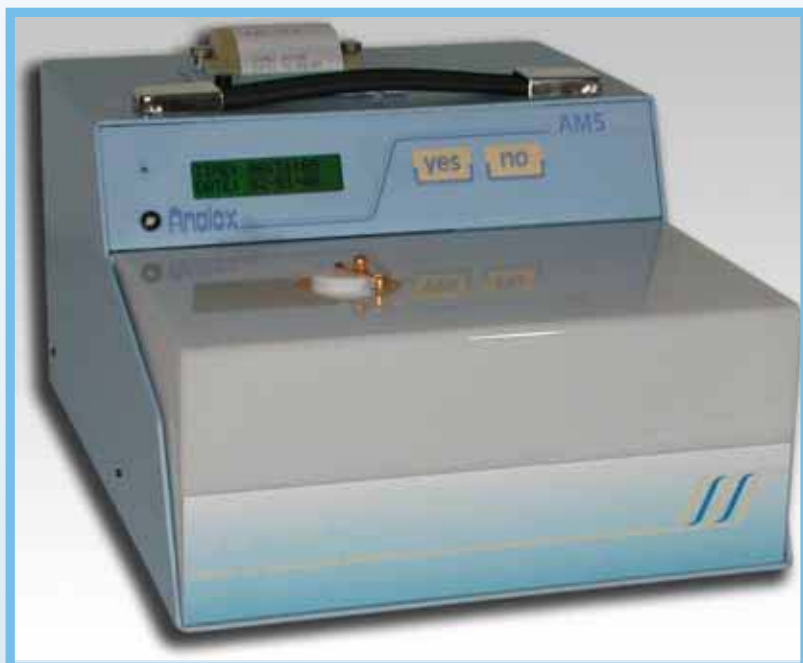


# ANALOX AM5

## Methanol Analyser



- Printed result 20 in seconds
- Simple YES/NO operation
- Word display for user guidance and self-test functions
- Direct readout in %, g/L or mg/L
- Fully sterilizable fluid pathways
- RS232 interface plus software option
- Different reagent kit sizes available



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

**A compact, easy-to-operate off-line analyser for the ultra-rapid monitoring of methanol in various industrial applications. These include its use as a fermentation carbon source, e.g. in *Pichia pastoris* expression systems, and its formation from breakdown of DMDC (dimethyl dicarbonate) used to preserve beverage products.**

## Rapid Methanol Analysis

The Analox AM5 Methanol Analyser gives a printed result in direct concentration units within 20 seconds of sample injection into the reaction chamber using a precision positive displacement pipette. Thus a quick check can be made on manufacturing processes as well as quality control of final product.

## Applications

Key industrial applications for the measurement of methanol using the AM5 include:

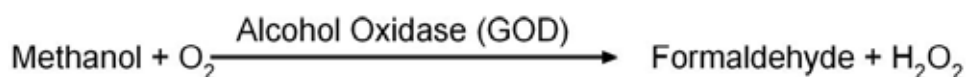
- the monitoring of dimethyl dicarbonate (DMDC) dosage as preservative in the beverage industry.
- monitoring the depletion of methanol as a carbon source in cell culture fermentation processes.

## Analyser Operation

Sample injection via a positive displacement pipette supplied with the instrument initiates the analyser cycle. A displayed and printed result is obtained within 20 seconds of sample injection. The analyser then automatically prepares itself for the introduction of a new sample within a further 40 seconds. The 32-character word display guides the user through all operating procedures using just 2 buttons, (YES and NO), for the simplest possible control.

## Analytical Principle

Oxygen consumption is measured in the reaction between sample methanol and alcohol oxidase (AOD) using a Clark-type amperometric oxygen electrode.



Under the assay conditions, the maximum rate of oxygen consumption is directly proportional to methanol concentration.

## Samples

Any aqueous sample can be used provided it is free of gross particulates. Turbidity or opacity does not present a problem. Carbonated samples are simply degassed before analysis. Ethanol should be absent from the sample matrix. A brief aqueous pre-dilution step is applied to concentrations exceeding 0.5g/L (500mg/L). All accessories for accurate dilutions are provided with the analyser.

## Reagent Kits

Simple-to-use methanol reagent kits are available in 70, 560 and 1000 (4 x 250) cycle packs.

## Performance Specifications

Analytical Range	a) 0-500 mg/L (Direct injection for DMDC dosage monitoring) b) 0-4%W/V (40g/L) (aqueous dilution)
Units	%, g/L, mg/L
Typical Precision (Repeatability)	S.D. = 0.2g/L @ 20g/L; 1mg/L @ 100mg/L
Sensitivity (analyser)	0.001%, 0.01g/L, 0.1mg/L

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