Environma **EC96** Oxygen Deficiency Monitor Stion Analysing



For the continuous monitoring of confined spaces, inert storage areas or where low or high levels of Oxygen may pose a hazard to personnel.

Applications

Breweries

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d Environments

s Manufacturing

Carbon Refining Food Packaging s ■ Glove Boxes on Beam ■ R & D

■ Fermentation d Environments

Manufacturing

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Gas Production

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Analysing

; Production

Soft Drink Plants

CO₂ Storage

Nitrogen Plants

Enclosed Work Areas

Welding Installations

Fruit Storage **Facilities**





Features & Benefits

- Two adjustable levels of oxygen with audible alarm
- 4-20mA output for remote monitoring
- Waterproof IP65 rated enclosure
- Sensor life in excess of 3 years

- Range 0-30% oxygen
- Simple installation
- 3 years warranty
- High accuracy

The EC96 enables continuous monitoring of the oxygen level within confined rooms and work areas. Adjustable alarm contacts give early warning of changes in oxygen levels, allowing action to be taken. The EC96 O₂ Deficiency Monitor transmits continuous oxygen concentration level to any control data acquisition system or programmable logic controller with 4-20mA input.

Supplied with 25 metres of cable as standard, allowing the cell to be mounted remotely, if required.

The EC96 incorporates diffusion type electrochemical sensor that does not require sample pumping making it easy to use and calibrate.

Systech EC96 - Oxygen Deficiency Monitor

The normal level of oxygen in breathing air is 20.9%. This level sustains life comfortably with an adequate safety margin either side of the atmospheric value. However in conditions of oxygen deficiency impairment of mental functions often confuses the victims, so that they fail to recognise the danger they are in.

If the level of oxygen drops below 17%, due to displacement by nitrogen, carbon

dioxide or other gases, an individual will suffer impairment. At 15% they will quickly lose consciousness, possibly causing injury, brain damage or death.

Conversely, oxygen enrichment is also known to be hazardous. With an oxygen concentration only 2% above ambient levels, a significant increase in the flammability of common materials is observed.

Technical Specifications

Ranges 0 - 30%Accuracy $\pm 0.1\%$

Response Time 90% of reading within 20 seconds

Calibration Range Ambient air (20.9%)

Measuring Cell Type Electrochemical fuel cell.

Operating Conditions

Ambient Temperature 0 to 40°C

Power Requirements

Power Supply 230/115V \pm 10%, 50/60Hz mains supply

Display Type Analogue Meter

Cabinetry and Mounting

Enclosure Polyester

Installation Wall mounting, remote cell (Acetal) with 25 metres of cable

Dimensions 200W ~ 200H ~ 175D (mm)

Weight 3kg

Ingress Protection IP67/Nema 4X

Options

Flashing Audible Beacon

Stainless Steel Remote Cell Assemblies

Extra Cable Available by the metre



Optional stainless steel remote cell

Systech Instruments have over 25 years experience of providing analysis solutions for a wide range of industries. From our manufacturing plant in the UK we produce gas analysers for industrial process industries, headspace analysers for monitoring gas flushing of food products, and our range of permeation analysers.



17 Thame Park Business Centre, Wenman Road, Thame, Oxfordshire OX9 3XA

Tel: +44 (0)1844 216838 Fax: +44 (0)1844 217220

E-mail: advice@systech.co.uk www.systechinstruments.com



Illinois Instruments, inc 2401 Hiller Ridge Road Johnsburg, Illinois 60050

Tel: +1 815 344 6212 Fax: +1 815 344 6332

E-mail: sales@illinoisinstruments.com www.illinoisinstruments.com

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