Environma nentation

EC96 Oxygen Deficiency Monitor



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 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

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.

Simple installation

Range 0-30% oxygen

- 3 years warranty
- High accuracy

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.



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Analysing

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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 Accuracy Response Time Calibration Range Measuring Cell Type	0 - 30% ± 0.1% 90% of reading within 20 seconds Ambient air (20.9%) Electrochemical fuel cell.
Operating Conditions Ambient Temperature	0 to 40°C
Power Requirements Power Supply Display Type	230/115V ± 10%, 50/60Hz mains supply Analogue Meter
Cabinetry and Mounting Enclosure Installation Dimensions Weight Ingress Protection	Polyester Wall mounting, remote cell (Acetal) with 25 metres of cable 200W ~ 200H ~ 175D (mm) 3kg IP67/Nema 4X
Options Flashing Audible Beacon Stainless Steel Remote Cell Assemblies Extra Cable	Available by the metre

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

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Systech Illinois reserve the right to change specifications without notice. 09/2010

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