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
- CO_2 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
- High accuracy
- This instrument has a 36 month warranty which covers any faulty workmanship and normal component failure relating to electronic circuit cards

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 O_2 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.

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	± 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	Universal input 85-264 VAC, 50/60 Hz, 5 VA
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	
Stainless Steel Remote Cell Assemblies	
Extra Cable	Available by the metre

Optional stainless steel remote cell

Systech Illinois have over 30 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.

Systech Instruments Ltd (UK)
17 Thame Park Business Centre,
Wenman Road,
Thame, Oxfordshire OX9 3XA
Tel: +44 (0)1844 216838
Fax: +44 (0)1844 217220
E-mail: sales.uk@systechillinois.com
www.systechillinois.com

Illinois Instruments, Inc (U.S)
2401 Hiller Ridge Road
Johnsburg, Illinois 60051
U.S.A
Tel: +1 815 344 6212
Fax: +1 815 344 6332
E-mail: sales.usa@systechillinois.com
www.systechillinois.com

Illinois Instruments (Thailand)
26/6 Ladprao 23, Jatujak,
Bangkok 10900
Thailand
Tel: +66 (0)2030 5851
Fax: +66 (0)2030 5850
E-mail: sales.ap@systechillinois.com
www.systechillinois.com

Systech Illinois (China)
Room 1107-1108 Forte Building
No.910 Quyang Rd, Hongkou district,
Shanghai, China 200437
Tel: +86 21 65533022
Fax: +86 21 65539651
Email: info@systechillinois.cn
www.systechillinois.cn