EC92DIS Portable Oxygen Analyzer

SYSTECH Illinois

Trace and Percentage (ATEX approved) Suitable for Hazardous Environments



Applications

Offshore	Gas purity checking	Hydrogen plants
Chemical plants	Pharmaceutical plants	Oil refineries
Petrochemical	Centrifuges	

Inert atmospheres and cylinder gas analysis in hazardous area

Features & Benefits

- Unique fast purge system
- Easy calibration
- Maintenance-free measuring cell
- Intrinsically safe certification
- Selectable ranges % and ppm
- Powered by 2 x PP3 batteries
- This instrument has a 36 month warranty which covers any faulty workmanship and normal component failure relating to electronic circuit cards

The EC92DIS portable oxygen analyzer will detect levels of oxygen as low as 1ppm, up to high percent levels and can be used on most industrial gases and atmospheres. There is no need for routine maintenance of the fuel cell, and the instrument may be easily calibrated, using ambient air or standard calibration samples.

Unique fast purge system

The innovative design of the fast purge/cell seal system means readings of single digit parts per million oxygen can be obtained within a few minutes. Apart from a single switch, no adjustments or controls are necessary, making the unit ideal for use by non-technical personnel.

Operation of the EC92DIS is made easy by the internal sample system. Taking gas measurements is simply a matter of connecting the gas line, purging for a short time and switching a valve position. When not in use the cell is sealed.

CE Approved by BASEEFA and CENELEC to ATEX Ex II 1G Ex ia IIC Ga T4 standards

Easy calibration

The digital display is easily visible in sunlight or low level light; can display readings below 1 part per million and indicate low battery power. A calibration adjustment on the front panel can be set to give a reading of 20.9% when the analyzer is working on clean air. Using this method ensures that the instrument will be absolutely accurate on any selected part of its operational range. If calibration of trace levels is required, certified calibration gas may be used.

Maintenance-free measuring cell

Each sensor is individually tested to meet stringent performance specifications. The micro-fuel cell is sealed and is simply replaced when exhausted. The normal lifetime for % measuring instruments is 3 years while trace sensors can last for several years, unlike others which may only function for several months.

Intrinsically safe certification

The instrument provides best in class certification compared to any other trace oxygen analyzer in the market place. Unlike any other analyzer it can be used in Zone 0 / Division 1. The instrument may also be used in safe/non hazardous areas and the batteries may be replaced by rechargeable types.

Technical Specifications

Ranges	0 - 30% plus 3 selectable from 0-20, 0-200, 0-2000 (ppm) 0-2%, 0-20%	
Resolution	0.05% of scale	
Accuracy	>10ppm	±2% of reading at 68°F ±5% of reading over temperature range
	<10ppm	±2% of reading + 0.4ppm at 68°F ±5% of reading + 0.4ppm + 0.08ppm/°F over temperature range
Response Time	90% of reading within 20 seconds	
Calibration Range	Ambient (20.9%) or certified gas	
Measuring Cell Type	Electrochemical fuel cell	
Operating Conditions		
Sample inlet pressure	0.2 to 5 Barg	
Sample flow rate	Internally regulated	
Sample temperature	32 to 104°F (0 to 40°C)	
Ambient temperature	32 to 104°F (0 to 40°C), RH 0-99% non condensing	
Power Requirements		
Power Supply	2 x PP3 dry batteries, fitted internally	
Battery life	36 hours, normal life	
Battery low indication	Automatic warning	
Display Type	Digital LCD meter	
Cabinetry and Mounting		
Enclosure	Sheet metal/cast aluminium	
Installation	Free standing for desk, shelf or panel mounting	
Dimensions	10.12W x 4H x 10.67D (inches)	
Panel cutout	9.45W x 3.9D (inches), if required	
Weight	6.6 lbs	
Ingress protection	IP40	
Approvals	ATEX Ex II 1G Ex ia IIC Ga T4	
Options	Carrying case. Remote probe.	

Systech Illinois have 30 years experience of providing analysis solutions for a wide range of industries. From our manufacturing plants in the U.S. and UK we produce gas analyzers for industrial process industries, headspace analyzers for monitoring gas flushing of food products, and our range of permeation analyzers.

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

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

Ilinois Instruments (Thailand)
26/6 Ladprao 23, Jatujak,
Bangkok 10900
Thailand
Tel: +66 (0)2030 5851
Fax: +66 (0)2030 5850
Email: 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

Systech Illinois reserve the right to change specifications without notice. 2017/10