

# Accurate, reliable and flexible process gas and moisture analysis solutions for industry



Oxygen analysers, Moisture analysers,  
Binary gas analysers & ATEX Approved analysers

## Process Oxygen Analysers

### Unsurpassed accuracy & flexibility

The EC900 (Electrochemical sensor), PM700 (Paramagnetic sensor) and ZR800 (Zirconia) oxygen analysers are the ideal solution for demanding on-line operating conditions. Offering long life, maintenance free sensors these highly advanced instruments incorporate user-friendly software to customise the analyser to meet your requirements.



**Ideal for applications including:** High purity gas production • Hydrocarbon refining • Electron beam curing • Ultraviolet curing Reflow/Wave soldering • Solder powder production • Semiconductor furnaces • Heat treating/annealing • Alloys & powdered metals • Vessel blanketing • Contact lens manufacturing • Food packaging • Glass fibre optics • Inert gas welding • Controlled environments • R&D • Glove boxes



### 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. The EC96 has two adjustable alarms to give early warning of changes in oxygen levels.



**Ideal for applications including:** Breweries • Soft drink plants • CO<sub>2</sub> storage • Nitrogen plants • Enclosed work areas • Welding installations • Fruit storage installations

## ATEX Approved Analysers

### Certified analyser for all hazardous areas

The EC91 can detect levels of oxygen as low as 1ppm, up to high percent levels and can be used on most industrial gases and atmospheres.

**Ideal for applications including:** Monitoring inert blanketing gas in oil and petrochemical applications • Inert gases and hydrogen • Gas purity • Glove boxes • Oxygen deficiency monitoring • Metallurgy • Gas line monitoring



*“Installing the EC913 for detecting oxygen in our heat treating / annealing furnaces has resulted in nitrogen cost savings” Manufacturer and supplier of precious metals*



### Trace & Percentage analyser

Suitable for hazardous environments, the EC92DIS can detect levels of oxygen as low as 1ppm up to high percent levels. Operation is made easy by the internal sampling system.

**Ideal for applications including:** Offshore • Gas purity checking • Hydrogen plants • Chemical plants • Pharmaceutical plants • Oil refineries • Petrochemical • Centrifuges

## Moisture Analysers

### Absolute measurement for moisture

Our MM400 and MM500 moisture analysers and dew point hygrometers offer maintenance free, reliable and stable moisture analysis in process gas measurement from trace levels to ambient air conditions.

**Ideal for applications including:** Industrial specialty gases • Heat treating furnaces • Air dryers • Chemical manufacturing • Compressed Air • Natural gas • Plastics manufacturing • Inert atmosphere blanketing • Metallurgy



## Binary Gas Analysers

### Measurement of gas combinations

The 542 is a versatile, programmable gas analyser based on the principle of thermal conductivity. It is capable of measuring many combinations of gases.

**Ideal for applications including:** Gas mixing • Welding gases • Heat treatment atmospheres • Hydrogen / helium purity • Food packaging gases



*“The most important element in the system, the 542 programmable hydrogen gas analyzers are proving to be a key component in the development of the process for the safe decontamination of reactor system components.”*

*Consultant Engineer, Nuclear Reactor*

For further information on the Systech Illinois process gas analyser range go to our comprehensive website [www.systechillinois.com](http://www.systechillinois.com). You will find technical data, technology methods, white papers, case studies, downloadable product brochures and demonstration videos.

Or if you wish to speak with one of our technical sales managers phone: **+44 (0)1844 216838** or e-mail [sales.uk@systechillinois.com](mailto:sales.uk@systechillinois.com)



**Permeation Analysers**

## Systech Illinois Gas Analyser Range



**Headspace Gas Analysers**

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.

In addition to manufacturing facilities in the UK and U.S, Systech Illinois have sales and support facilities in China and Thailand and over 100 dedicated representatives worldwide.

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