

ISATEC 5225

Oxygen Analyzer for vol. % measurement



AVAILABLE OPTIONS:

- pressure reducer
- particle filter 2-7 μ m
- manual 5-way valve
- electronical/pneumatic gas supply pump
- electronical flowmeter
- auto-Calibration
- 2 free adjustable measuring values
- different housings

The Oxygen analyser ISATEC 5225 is the right choice for applications to monitor the atmospheres of forming gas. It uses an electrochemical sensor.

To house the electrochemical sensors in its oxygen analysers, ISATEC has developed a series of measuring chambers which are gas-tight sealed. This guarantees leakage-free gas pathways, which is particularly important in Vol. % applications.

The analyser ISATEC 5225 is a micro-processor equipped instrument for highly accurate measurements off Oxygen in the Vol. % range. A microprocessor controls the electronics and the display and the analyser is available in housings for General Applications.

The electrochemical sensors for the measurement of trace oxygen are mainly consisting of five components:

- Oxygen sensitive cathode
- Anode
- Electrolyte
- Diffusion membrane
- Housing with electrical connections

The Oxygen Analyser ISATEC 5225 is the ideal system for automated process control and the use of electrochemical sensors allows in standard applications the measurement of trace oxygen in a number of complex and aggressive gas mixtures.

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TECHNICAL SPECIFICATIONS

Measuring principle	Electrochemical oxygen sensor
Applications	Soldering machines Welding technology Gases Industries Chemical Industries
Measuring range	0-25% Vol.
Analogue signal port	(0) 4 ... 20mA or 0...10 V, galvanically separated
Reproduceability	± 2% of the measuring value
Resolution	0.01%
T-90 Time	ca. 20 Seconds
Display	2* 16 digit, illuminated LCD display 1. Line: display of concentration in ppm or Vol % 2. Line: messages, device status, sensor parameters
Messages	1 System message (measuring value yes / no) max. 2 messages configurable as oxygen value, calibration message, measuring value in the range, flow rate
Gas connection	inlet / outlet 3 / 6 mm ferrule pack
Sample flow	min. 30 NI/h, max. 50 NI/h
Sample pressure (inlet)	min. 1,01 bar abs., max. 10 bar abs.
Digital communication	serial interface RS232
Ambient operating Temp.	+5°C up to +60°C
Power supply	110 ... 230 VAC or 24 VDC
Protection class/Housing/ Dimensions	IP65 / wall mounting housing / ca. 300 x 320 x 130 mm IP 54 / panel mounting 144 x 144 mm
Weight	2,5 kg ... 10 kg depending housing and built-in options