Benchtop Para-magnetic Oxygen Analyzer

GAB-1700

Benchtop Para-magnetic Oxygen Analyzer

See All Models Below

- Non-Depleting Paramagnetic Measurement Technology Ensures the Unit is Always Ready for Use
- Accurate, Reliable and Component Specific, Giving Confidence that ObservedValues are Credible and Not Due to Background Interference
- Customer Pre-Tested Software Offers Ease of Use, Simple Calibration and Advanced Features
- Innovative Construction Gives a Robust Unit with a Space Saving Footprint
- Rechargeable Battery Option Enables Mobile Use

Environmental / Weather Stations - View related products

Description

The OMEGA GAB-1700 oxygen analyzer has been specifically designed to meet the demanding needs of field and laboratory analysts, light industrial users and others who require fast, accurate and reliable analysis of common gas mixtures. This compact, portable and easy to use instrument is based upon a non-depleting, component specific measurement technique (magnetodynamic paramagnetic) for long life and minimal running costs, avoiding the problems associated with electrochemical or other less robust methods of analysis.

Specifications
Gases Measured Oxygen (O2) Sensors Oxygen
Technology: Paramagnetic
Variant: Industrial
Full Scale Range (FSR): 0 to 100% O2
Minimum Output Range: 0 to 1% O2
Cell Construction: 316 stainless steel
Decimal Places: 1
Performance
Accuracy:
General Use: ±0.1% O2
Stable Environment: ±0.1% O2
Zero Drift, Per Week: ±0.2% O2
Response Time (T90): <15 seconds
Tilt Effect, at 15° from Calibration: ±0.15% O2
Pressure Effect: Directly proportional to ambient barometric pressure
Flow Variation Effect: ±0.1% O2 for a ±0.5 psig (3.5kPa) change
Operating Temperature: -10 to 50°C (14 to 122°F)
Temperature Coefficient:
Zero: ±0.2% O2 per 10°C (18°F)
Span: ±0.3% O2 per 10°C (18°F)

Sample
Sample Gas: Clean, dry, non-flammable and non-toxic gases only
Note: Though samples containing >5% CO2 are toxic they can be analyzed if suitable precautions are taken.
Flow Control: To maximize measurement stability, unpumped units are supplied with an automatic flow control device (AFCD); over the specified inlet pressure range this controls sample flow rate to approximately 1.5 to 6 liters (0.05 to 0.2 cubic feet) per minute
Sample Inlet Connection: 5 mm (0.19") OD stub with "quickconnect" barb fitting for 6.3 mm (¼") ID tube or adaptor to 1/8 NPT fitting option
Sample Outlet Connection: 5 mm (0.19") OD stub (sample and bypass)
Inlet Pressure:
Without Pump: 7kPa to 70kPa (1 to 10 psig)
With Internal Pump (Optional): -7kPa to 3.5kPa (-1 to 0.5 psig)
Sample Filter: Replaceable 0.6 µm glass fiber particulate filter
Response Time: All at 70kPa (10 psig)
Flow Effect: AFCD version, within specified sample gas supply range
Dimensions: 150 W x 260 D x 300 mm H (6 x 10.5 x 12")
Weight: 2.6 to 3.9 kg (5.7 to 8.6 lb), depending on configuration

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† ***All prices on this site are shown in Thai Baht.***

Note: Comes complete with US power cord, UK power cord, EU power cord, universal power supply, RS232 cable, hand pump, 2 spare particulate filters, quick fit gas connector, moisture trap, Analyzer Test Sheet, and operator's manual.

CE marked and in compliance with EEC EMC and WEEE Directives.

100 to 240V/43 to 70 Hz AC Power Supply is UL approved.

Warning: These analyzers are not medical devices as defined in the Medical Devices Directive 93/42EEC and are not intended to be used on human beings for the diagnosis, prevention, monitoring, treatment or alleviation of disease, injury or replacement or modification of the anatomy.

Calibration of the analyzer is recommended after each power up.

Related Products:

HHAQ-104

Portable Oxygen Monitor and Data Logger
