Thermo Scientific Model 410*i* Carbon Dioxide Gas Analyzer with Oxygen Sensor

Non-dispersive infrared analyzer with paramagnetic sensor technology

The Thermo Scientific[™] Model 410*i* Carbon Dioxide Gas Analyzer with Oxygen Sensor measures oxygen concentrations. The advanced non-dispersive infrared technology, utilized in the standard Model 410*i*, combined with the paramagnetic oxygen sensor, offers unsurpassed detection specificity and long term stability.

- · Paramagnetic sensor technology
- Adjustable ranges
- Real-time correction of CO₂ readings
- User selectable O₂ correction concentrations



The paramagnetic oxygen sensor gives the source measurement of CO_2 extended capabilities including the ability to read and report oxygen concentrations within the sample stream up to 100%.

Additionally, programming allows the user to correct the CO_2 reading for the amount of oxygen in the sample.

Selectable O_2 concentrations can be used as the correction factor. (i.e. CO_2 corrected to 6% O_2 or any other percentage.)

Developed on the renowned *i*Series platform the Thermo Scientific Model 410*i* gas analyzer with oxygen offers limited maintenance and exceptional ease of use.

*i*Series features also include:

- Rack mountability
- Ethernet port & connectivity options
- Flash memory for increased data storage
- Easily programmable short-cut keys
- · Large interface screen





Thermo Scientific Model 410*i* Carbon Dioxide Gas Analyzer with Oxygen Sensor

Measurement Range	User selectable to 100% 0 ₂
Repeatability	+/- 0.1% 0 ₂
Zero Drift <i>(24 hour)</i>	+/- 0.1% 0 ₂
Response Time	< 2.5 seconds to 90% FS
Linearity	+/- 0.1% 0 ₂
Operating Temperature	41°F - 104°F (5°C - 40°C)
Temperature Coefficient Zero Span	Within a range of 32°F to 149°F (0°C to +65°C) < +/- 0.03% 0 ₂ / °C < +/- 005% 0 ₂ of reading / °C
Outputs	Selectable voltage, RS232/RS485, TCP/IP, 10 status relays and power fail indication 0-20 or 4-20 mA isolated current output
Inputs	16 digital inputs, 8 0-10Vdc analog inputs
Physical Dimensions	16.75" (42.5cm) W x 8.62" (21.9cm) H x 23" (58.4cm) D, 55lbs (25kg)

Ordering Information

Model 410*i* Carbon Dioxide Gas Analyzer with Oxygen Sensor

Choose from the following configurations/options to customize your own Model 410*i* analyzer

1. Voltage options:

- J = 100 VAC 50/60 Hz

2. Internal zero / span:

- N = No zero / span valve
- Z = Internal zero / span valves
- S = No zero / span valve with O₂ sensor
- R = Internal zero / span valves with O₂ sensor

3. Filter Wheel Purge:

P = Filter wheel purge setup (Standard)

4. Sample Gas Concentration Range:

- D = 0 -10,000 ppm Concentration Range (Dilutive)
- E = 0 25% Concentration Range (Extractive)

5. Optional I/O:

- A = No optional I/O (standard)
- C = 0 20, 4-20mA Current output, 6 Channels
- 0 10v Analog Input, 8 Channel

6. Mounting Hardware:

- A = Bench mounting (standard)
- B = Ears & handles, EIA
- C = Ears & handles, Retrofit

Your Order Code: 410i - _ _ _ _

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific products.

For more information, visit our website at thermoscientific.com/air

© 2012 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

This product is manufactured in a plant whose quality management system is ISO 9001 certified.

USA 27 Forge Parkway Franklin, MA 02038 Ph: (866) 282-0430 Fax: (508) 520-1460 customerservice.aqi@thermofisher.com India C/327, TTC Industrial Area MIDC Pawane New Mumbai 400 705, India Ph: +91 22 4157 8800 india@thermofisher.com China +Units 702-715, 7th Floor Tower West, Yonghe Beijing, China 100007 +86 10 84193588 info.eld.china@thermofisher.com Europe Takkebijsters 1 Breda Netherlands 4801EB +31 765795641 info.aq.breda@thermofisher.com

