

# Thermo Scientific Model 43i Series Analyzers with Oxygen Sensor Module

Pulsed fluorescence gas analyzer with paramagnetic sensor technology

The Thermo Scientific™ Model 43i Series Analyzers with Oxygen Sensor Module is available with paramagnetic sensor technology for the measurement and correction of oxygen concentrations.

- Paramagnetic sensor technology
- Adjustable ranges
- Real-time correction of SO<sub>2</sub> readings
- User selectable O<sub>2</sub> correction concentrations



The pulsed fluorescence technology, utilized in the standard Thermo Scientific Model 43i analyzer, combined with the paramagnetic oxygen sensor offers unsurpassed detection specificity and long term stability.

The paramagnetic oxygen sensor gives the source measurement of SO<sub>2</sub> 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 SO<sub>2</sub> reading for the amount of oxygen in the sample.

Selectable O<sub>2</sub> concentrations can be used as the correction factor. (i.e. SO<sub>2</sub> corrected to 6% O<sub>2</sub> or any other percentage.)

Developed on the renowned iSeries platform, the Model 43i Sulfur Dioxide Gas Analyzer with Oxygen Sensor Module offers limited maintenance and exceptional ease of use.

iSeries features also include:

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



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## Thermo Scientific Model 43i Sulfur Dioxide Gas Analyzer With Oxygen Sensor

Measurement Range	User selectable to 100% O <sub>2</sub>
Repeatability	+/- 0.1% O <sub>2</sub>
Zero Drift (24 hour)	+/- 0.1% O <sub>2</sub>
Response Time	< 2.5 seconds to 90% FS
Linearity	+/- 0.1% O <sub>2</sub>
Operating Temperature	41°F - 104°F (5°C - 40°C)
Temperature Coefficient	Within a range of 32°F - 149°F (0°C to + 65°C)
Zero	< +/- 0.03% O <sub>2</sub> / °C
Span	< +/- 0.05% of O <sub>2</sub> 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 43i Sulfur Dioxide Analyzer with Oxygen Sensor Module

Choose from the following configurations/options to customize your own Model 43i

##### Model 43i

##### 1. Voltage options:

A = 120 VAC 50/60 Hz (standard)

B = 220 VAC 50/60 Hz

J = 100 VAC 50/60 Hz

##### 2. Internal zero / span and/or

##### Oxygen Sensor:

N = No zero / span assembly

(standard)

Z = Internal zero span assembly

P = Internal permeation span

source w/ zero/span assembly

L = Oxygen Sensor with No

Zero/Span

K = Oxygen Sensor with Zero/Span

##### 3. Kicker Type:

S = Standard

H = Heated

##### 4. Optional I/O:

A = None (standard)

C = 0-20, 4-20mA current output

- 6 channels, 0-10v analog input -

8 channel

##### 5. Mounting Hardware:

A = Bench mounting (standard)

B = Ears & handles, EIA

C = Ears & handles, retrofit

Your Order Code: 43i - \_ \_ \_ \_ \_

##### Model 43i HL

##### 1. Voltage options:

A = 120 VAC 50/60 Hz (standard)

B = 220 VAC 50/60 Hz

J = 100 VAC 50/60 Hz

##### 2. Internal zero / span and/or

##### Oxygen Sensor:

N = No zero / span assembly

(standard)

Z = Internal zero / span assembly

H = Heated kicker (no zero span)

Y = Heated kicker w/ internal

zero/span assembly

S = Oxygen Sensor with No

Zero/Span

R = Oxygen Sensor with Zero/Span

T = Oxygen Sensor with Heated

Kicker, No Zero/Span

K = Oxygen Sensor with Heated

Kicker and Zero/Span

##### 3. Optional I/O:

A = None (standard)

C = 0-20, 4-20mA current output -

6 channels, 0-10v analog input -

8 channel

##### 4. Mounting Hardware:

A = Bench mounting (standard)

B = Ears & handles, EIA

C = Ears & handles, retrofit

Your Order Code: 43i-HL - \_ \_ \_ \_ \_

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](http://thermoscientific.com/air)

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

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