

Model 60i Specifications

General Dimensions

Weight	22.2kg (49lbs)		
Physical	425mm (16.75") (W) x 219mm (8.62") (H) x 584mm (23") (D)		
Compound	Range	Lower Detection Limit	Linearity
O₂	1 to 25%	0.01%	+/- 1% selected range
SO₂	1 to 12,500 ppm	1 ppm	+/- 2% selected range
CO	1 to 5,000 ppm	1 ppm	+/- 2% selected range
CO₂	2 to 25%	500 ppm	+/- 2% selected range
NO	1 to 1,000 ppm	1 ppm	+/- 2% selected range
NO₂	1 to 500 ppm	0.5 ppm	+/- 2% selected range
Lower Detection Limit	2X Noise at 60sec averaging		
Precision (% of point)	+/- 0.1% , measured with single gases at the span concentration		
Power Requirements	100 VAC, 115 VAC, 220-240 VAC +/- 10% at 275 watts		
Ambient Temperature	20-30°C (68-86 °F)		
Flow Rate	~ 0.5 liters per minute		
Accuracy	2% of span		
Span Drift	Less than 2% per week		
Zero Noise	0.5 ppm RMS (60sec averaging time)		
Zero Drift	Less than 2% per week		
Response Time	60 seconds		
Outputs	6 analog outputs selectable voltage 6 additional optional outputs available		
Inputs	10 digital inputs (standard) or 16 digital outputs with an optional I/O board		
Communication	Serial and dedicated I/O and Ethernet capabilities		

Service and support

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. Thermo Fisher Scientific offers comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, Thermo Fisher services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.



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Now, a 6 gas analyzer
that's not afraid of the water.

Thermo Scientific
NDIR Multi-gas Analyzer
Model 60*i*



SO₂ CO NO
NO₂ O₂ CO₂

Six gases

One analyzer

One technology

The Thermo Scientific Model 60i, full-extractive multi-gas analyzer –

CO, CO₂, NO, NO₂, SO₂ and O₂ with just one instrument

Engineered to protect against moisture damage due to sample conditioning system failures

Fewer analyzer technologies to master

One technology means less components and higher reliability

Designed to meet US EPA 40CFR Part 60 requirements

The Thermo Scientific Model 60i, full-extractive multi-gas analyzer is designed for high reliability with an uncomplicated design which is easy to use and maintain.

Multiple moisture protection measures

In addition to the five gases measured by the NDIR/Optical Filter Technology, the analyzer also continuously



Key design features of the Model 60i are the built-in safeguards that protect the analyzer in the event of sample conditioning system malfunction.

Non-dispersive infrared (NDIR) Optical Filter Technology delivers accurate, precise measurement of up to six gases, CO, CO₂, NO, NO₂, and SO₂, with an optional O₂ measurement, with either chemical cell or paramagnetic technology.

measures sample water content. This capability can shut down the sample pump before the analyzer is damaged and notify the operator of a potential problem with the system.

The Model 60i's high sensitivity requires as little as one quarter the flow rate of other instruments, exposing the analyzer and sample conditioning system to less particulate and water.

Easier to maintain

Significant engineering efforts were put forth to ensure the final design was simple in nature. Its efficient gas cell and electronic system layout, two-piece slide apart case and interior fold-down divider panel for rapid component access make the analyzer very easy to service.

CONCENTRATIONS		
CO	5	PPM
CO2	0.4	%
NO	109	PPM
NO2	29	PPM
NOX	138	PPM
SO2	1	PPM
SO2L	1	PPM
O2	0.0	%

SAMPLE 15:25

RANGE RUC DIAGS ALARM

Large graphic display

Programmable soft keys

Menu navigation keys



Maintenance-free, optical filter wheel technology

Wider dynamic range

The Model 60i possesses a wider dynamic range than other multi-gas analyzers, which requires less configuration.

Advanced electronics

Features include 4 MB of flash memory for increased data storage and efficient firmware upgrades, an Ethernet port for remote access, 16 digital inputs, 10 digital outputs and 6 analog outputs. A contact closure can be wired to a control system to signal a power failure alarm. The internal data-logging capacity accommodates a minimum of 2 weeks data, which easily exports to Excel® spreadsheet software.

Oxygen measurement

Optional oxygen measurement is available using either an affordable electrochemical cell or, when high accuracy and reliability are required, by paramagnetic technology.

Integrated electronics

The Model 60i is a smart analyzer – that controls the optional Model 61i calibrator and Model 62i Probe

Controller. This integrated system reduces space requirements, increases reliability, and lowers maintenance. The Model 60i also has the flexibility to work well with your unique system design.

User-friendly interface

The Model 60i interface is designed around intuitive navigation and easy to program short-cut keys that allow you to jump to frequently accessed functions, menus or screens, making the analyzer easy to operate for operators of any experience level. A primary screen displays all critical information and a menu screen shows all key parameters plus retains primary screen data. Programmable short-cut keys jump directly to frequently used functions.

New – with a solid track record

This state-of-the-art analyzer utilizes components plant-proven in other Thermo Scientific analyzers and is based on the well-established 48i platform.