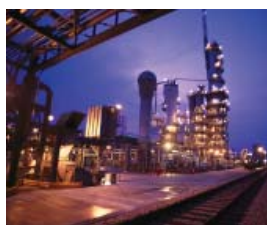


## Total Hydrocarbon Analyzer, Model 51i

Utilizing Flame Ionization for detection of THC



### Key Features

- Flame Ionization Technology
- Adjustable Ranges
- Real Time correction of THC Readings

The Model 51i Total Hydrocarbon (THC) Analyzer combines proven Flame Ionization Detector (FID) technology, easy to use menu-driven firmware, and advanced diagnostics to offer unsurpassed flexibility and reliability. The Model 51i is available in Low Temperature and High Temperature versions.

The Model 51i uses a flame ionization detector, or FID, to measure organic gases and vapors. Flame ionization is a well-known technology that has been used in laboratories and industry for many years. Flame ionization detectors are highly efficient; they provide a wide linear range and sensitive detection of organic compounds.

This state-of-the-art gas analyzer also offers features such as an ethernet port as well as flash memory for increased data storage. Ethernet connectivity provides efficient remote access, allowing the user to download measurement information directly from the instrument without having to be on-site.

You can easily program short cut-keys to allow you to jump directly to frequently accessed functions, menus or screens. The larger interface screen can display up to five lines of measurement information while primary screen remains visible.

# Total Hydrocarbon Analyzer, Model 51i

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 air quality products.

## Product Specifications

<b>Preset Ranges</b>	0-1, 10, 100, 1,000, 5000, and 10000 ppmc
<b>Custom Ranges</b>	0-1 to 10000 ppmc
<b>Zero Noise</b>	0.025 ppmc RMS (10 second averaging time)
<b>Minimum Detectable</b>	0.050 ppm (10 second averaging time)
<b>Zero Drift (24 Hours)</b>	< 0.50 ppm
<b>Span Drift (24 Hours)</b>	< 2% of range or 0.20 ppm (whichever is larger)
<b>Response Time (90%)</b>	15 seconds at 1 second averaging time
<b>Precision</b>	2.0% of reading or 0.1 ppm (whichever is larger)
<b>Linearity</b>	+/-2.0% of span (at concentrations of 10% to 150% of span)
<b>Sample Flow Rate</b>	0.75 to 1.50 lpm nominal
<b>Makeup Air Flow Rate</b>	150 ccm to 300 ccm Hydrocarbon free air
<b>Fuel Flow Rate</b>	10 to 35 ccm Hydrogen or 50 to 120 ccm H <sub>2</sub> /He Mixture
<b>Operating Temperature</b>	+15°C to +35°C
<b>Power Requirements</b>	100 VAC, 115 VAC, 220-240 VAC +/-10%, 50/60Hz, 420W
<b>Size and Weight</b>	16.75"(W) x 8.62"(H) x 23"(D), 50 lbs. (22.7 kg)
<b>Outputs</b>	Selectable Voltage, RS232/RS485, TCP/IP, 10 Status Relays, and Power Fail Indication 0-20 or 4-20 mA Isolated Current Output (optional)
<b>Inputs</b>	16 Digital Inputs (standard), 8 0-10vdc Analog Inputs (optional)

## Ordering Information

### Total Hydrocarbon Analyzer, Model 51i

Choose from the following configurations/options to customize your own Model 51i

#### Model 51i HT

##### 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:

M = No Internal Zero / Span, Mixed Fuel  
 N = No Internal Zero / Span, Hydrogen Fuel  
 Y = Internal Zero / Span, Mixed Fuel  
 Z = Internal Zero / Span, Hydrogen Fuel

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

A = None (standard)  
 C = 0-20, 4-20mA current output - 6 channel,  
 0-10v analog input - 8 channel

##### 4. Mounting Hardware:

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

Your Order Code: 51i HT \_ \_ \_ \_

#### Model 51i LT

##### 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:

N = No Internal Zero / Span, Hydrogen Fuel  
 Z = Internal Zero / Span, Hydrogen Fuel

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

A = None (standard)  
 C = 0-20, 4-20mA current output - 6 channel,  
 0-10v analog input - 8 channel

##### 4. Mounting Hardware:

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

Your Order Code: 51i LT \_ \_ \_ \_



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