

# Thermo Scientific Model 15i Hydrogen Chloride Analyzer

Gas filter correlation analyzer

The Thermo Scientific™ Model 15i Hydrogen Chloride (HCl) Analyzer utilizes gas filter correlation technology to measure the amount of Hydrogen Chloride in the sample.

- Ethernet connectivity for efficient remote access
- Enhanced user interface with one button programming and large display screen
- Flash memory for increased data storage and user downloadable software
- Enhanced electronics design optimizes product commonality
- Improved layout for easier accessibility to components



The Thermo Scientific Model 15i analyzer is based on the principle that HCl absorbs infrared radiation at a wavelength of 3.4 microns. Because infrared absorption is a nonlinear measurement technique, it is necessary for the instrument electronics to transform the basic analyzer signal into a linear output.

The Model 15i analyzer uses an exact calibration curve to accurately linearize the instrument output over any range up to a concentration of 5,000ppm.

This state-of-the-art gas analyzer offers features such as an Ethernet port, flash memory for increased data storage and is field-upgradable.

Ethernet connectivity provides efficient remote access, allowing the user to download measurement information directly from the instrument without having to be on-site.

Easily programmable shortcut keys allow you to jump directly to frequently accessed functions, menus or screens. The larger interface screen can display measurement information and status while viewing menu and operational screens.



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Preset Ranges	0-5, 10, 20, 50, 100, 200, 500, 1000, 2000, and 5000 ppm 0-10, 20, 50, 100, 200, 500, 1000, 2000, 5000, and 7500 mg/m <sup>3</sup>
Custom Ranges	0-5 to 5000 ppm 0-10 to 7500 mg/m <sup>3</sup>
Zero Noise	0.1 ppm RMS (5 minute averaging time)
Lower Detectable Limit	0.20 ppm
Zero Drift (24 hour)	+/- 0.2 ppm
Span Drift (24 hour)	+/-2% full scale
Response Time	120 seconds (30 second average time)
Precision	+/-0.1 ppm
Linearity	+/-2% full scale < 1000 ppm, +/- 5% full scale >1000 ppm
Sample Flow Rate	1.0 liters/min. nominal
Operating Temperature	41° -113° F (5° - 45° C)
Power Requirements	100 VAC, 115 VAC, 220-240 VAC +/-10% @ 275W
Size and Weight	16.75"(W) x 8.62"(H) x 23"(D), 49 lbs. 425 mm (W) x 219 mm (H) x 584 mm (D), 22.2 kg
Outputs	Selectable Voltage, RS232/RS485, TCP/IP, 10 Status Relays, and Power Fail Indication (standard). 0-20 or 4-20 mA Isolated Current Output (optional)
Inputs	16 Digital Inputs (standard), 8 0-10 Vdc Analog Inputs (optional)

### Ordering Information

#### Model 15i HCl Analyzer

Choose from the following configurations/options to customize your own Model 15i analyzer

#### 1. Voltage options:

A = 115 VAC 50/60 Hz

B = 220/240 VAC 50/60 Hz

J = 100 VAC 50/60 Hz

#### 2. Internal zero /span:

N = No zero / span valve

Z = Internal zero / span valves

#### 3. Filter Wheel Purge:

S = Standard plumbing (standard)

P = Filter wheel purge set-up

#### 4. Optional I/O:

A = No optional I/O (standard)

C = 0-20, 4-20mA current output - 6 channels,

0-10v analog input - 8 channels

#### 5. Mounting hardware:

A = Bench mounting and Ears/Handles, EIA

**Your Order Code: 15i - \_ \_ \_ \_ \_**

#### Other options:

- Teflon particulate filter
- Cable, DB37M to open end, 6' LG.
- Rack mounts
- Cable, DB37F to open end, 6' LG.
- Rear extender
- Cable, DB25M to open end, 6' LG.
- Terminal Block Kit & Cable 37 pin
- Cable, RS232 Null Modem
- Terminal Block Kit & Cable 25 pin

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](http://thermoscientific.com)

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

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