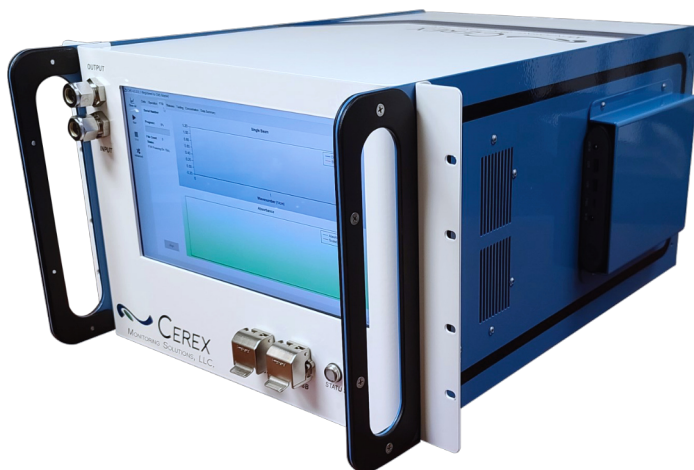




# Cerex FTIR DTGS

## FTIR Multi-Gas Analyzer

Designed specifically for rapid detection of **gaseous indoor chemical threats** with parts per billion detection limits and rapid response times



### Hardware Features:

- Remote control over network or internet
- High sensitivity, no-maintenance, non-cooled DTGS detector with 10m optical path length
- Operates on bench top, in rack or upright on wheels; easy wall mount option
- Onboard backup battery provides 4 hours of run time, auto-recovery following power loss
- Easy access instrument calibration ports on front panel
- Data output rates typically 15 sec. to 2 min.
- Low cost of ownership, no maintenance design; only consumables are dust filters and IR source

### System Features:

- CWA and TIC Compatible
- Includes library of 385 industrial gases
- User-configurable open-source library
- Raw spectral files are standard .cvs format - compatible with various FTIR software applications
- Compound specific backgrounds include both static and dynamically updated zero spectra
- Post-processing tool kit is included - allows reprocessing raw data sets against alternate libraries, backgrounds, etc.
- Continuous, automated background update - no cylinder gases or zero air required to update backgrounds



# Cerex FTIR Specifications

## Hardware Parameters

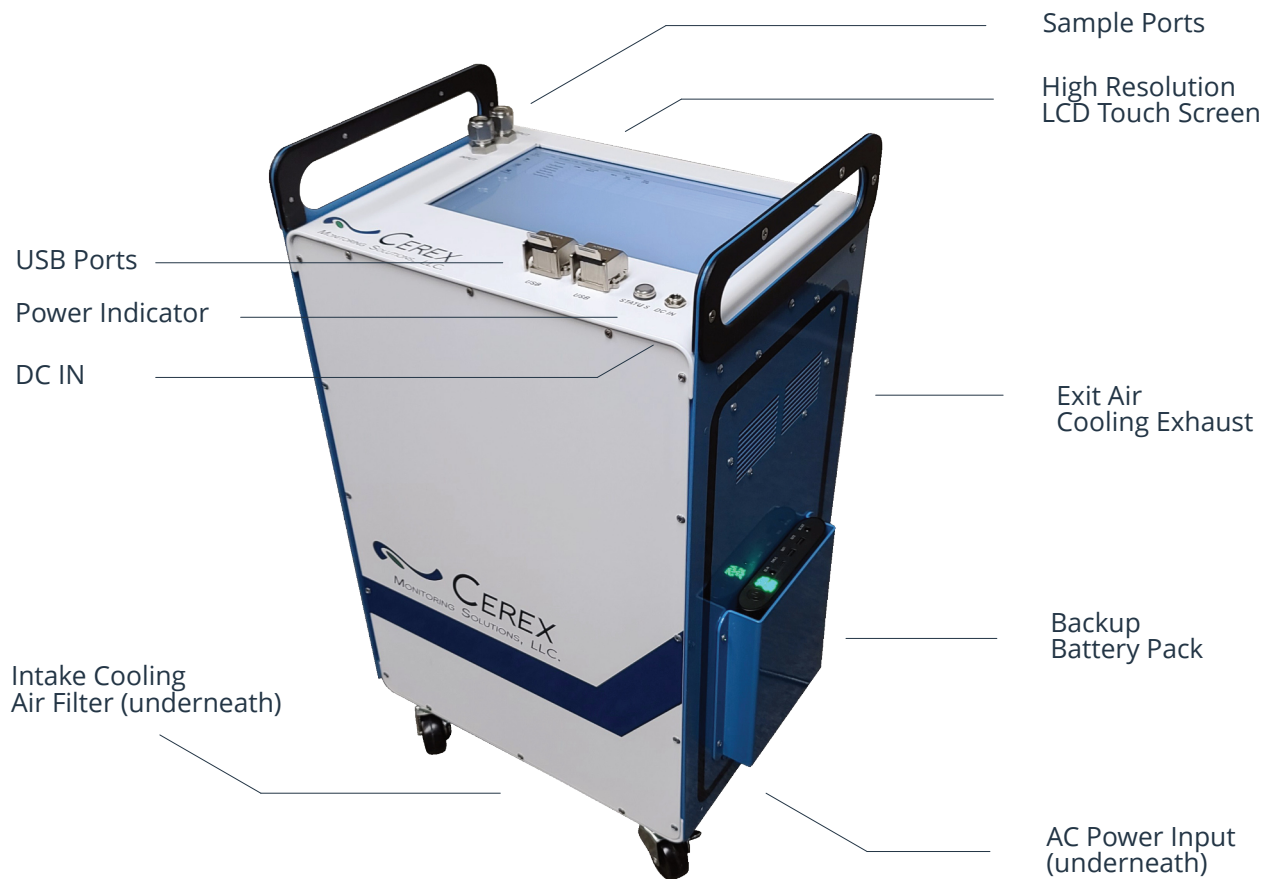
<b>Model</b>	Cerex FTIR DTGS
<b>Analyzer Type</b>	Ambient air multi-gas FTIR
<b>Applications</b>	Indoor air quality monitoring TYP
<b>Instrument Cooling</b>	Air cooled
<b>Operating Conditions</b>	Temperature controlled general purpose atmosphere 0C°- 40C°
<b>Operating Humidity</b>	Up to 75%
<b>Installation</b>	Rack mount, wall mount, bench top, or portable (wheels)
<b>Interface</b>	Integrated touchscreen PC with MS Windows™ 10/11 OS
<b>Digital Interface</b>	RJ45 LAN Type A USB
<b>Communications</b>	Serial over USBs / Serial conversion MODBUS TCP/IP, RTU, ethernet Cellular or Internet ; Remote access from another p/c anywhere, anytime
<b>Data Acquisition Rate</b>	User configurable: TYP 15 seconds - 5 minutes
<b>Maximum Sample Temperature</b>	35°C, non-condensing
<b>Maximum Sample Pressure</b>	2 PSIG
<b>Sample Inlet / Outlet Ports</b>	1/2" Swagelok©
<b>Sample Flow Rate</b>	10 LPM Typical
<b>Sample Cell Volume</b>	3.4 L
<b>Power Supply</b>	120VAC/50-60Hz or 240VAC/50-60Hz
<b>Power Consumption</b>	245W
<b>Dimensions</b>	27.07" x 11.59" x 11.69"
<b>Weight</b>	66lbs (30kg)
<b>Enclosure</b>	Aluminum, rack mountable, bench top & upright rolling operating positions
<b>Spectral Resolution</b>	TYP 0.5cm <sup>-1</sup> . User selectable: 0.5cm <sup>-1</sup> , 2cm <sup>-1</sup> , 4cm <sup>-1</sup> , 8cm <sup>-1</sup> , 16cm <sup>-1</sup> , 32cm <sup>-1</sup>
<b>Optical Path Length</b>	10 meter standard
<b>Detector</b>	DTGS - non-cooled / no maintenance
<b>Minimum Detection Limit</b>	Gas-specific, typical parts per billion

## Maintenance Intervals

<b>IR Source</b>	1 year, field serviceable; typical 3 years
<b>Sample and Air Filters</b>	As required, site specific

# Cerex FTIR DTGS

FTIR Multi-gas Analyzer



## Method Compliance

- ▶ **USEPA Method 318**      Extractive FTIR Method for Measurement of Emissions from Mineral Wool and Wool Fiberglass Industries
- ▶ **USEPA Method 320**      Vapor Phase Organic and Inorganic Emissions by FTIR
- ▶ **USEPA Method 321**      Determination of HCl for Portland Cement Industries
- ▶ **USEPA Performance Specification 15**      for Extractive FTIR CEMS in Stationary Sources
- ▶ **NIOSH Method 3800**      Organic and Inorganic Gases by Extractive FTIR Spectrometry
- ▶ **ASTM Method D6348-03**      Determination of Gaseous Compounds by Extractive Direct Interface Fourier Transform Infrared Spectroscopy

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