



CEREX UV HOUND Analyzer

UV HOUND analyzers are the recognized choice for industrial hygiene, leak detection, HazMat first response, environment contamination and remediation, and indoor air safety monitoring. They specialize in monitoring individual VOCs (such as Benzene, Ammonia, Nitric Oxide, Nitrogen Dioxide, Sulfur Dioxide, and more) without costly, frequent maintenance or environmental interference. Parts per billion level detection limits and simultaneous multi-gas capability in an all-in-one, portable package.

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General Specifications

Analyzer Portable multi-gas point analyzers

Measuring Technology Ultra Violet Differential Optical Absorption Spectroscopy (UV-DOAS)

Measuring Principle Beer-Lambert Law

Measuring Technique Classical Least Squares (CLS) regression analysis; optional Partial Least Squares (PLS)

Multi-gas Capability

Standard configuration is up to 5 compounds; capable of simultaneous analysis of up to 50 compounds

Response Time User selectable from 5 seconds and up

Typical output rates are 30s, 60s, 120s, or 300s Time weighted average available for user defined periods (8 hour, 12 hour, 24 hour)

Gas-specific, typical parts per billion **Minimum Detection Limit**

38.12" x 16" x 6.12" (96.8 x 40.6 x 15.5 cm) **Enclosure Specs Dimensions**

55 Lbs (25kg) Weight Material

Applications Refinery fenceline monitoring of Benzene, Toluene, and Xylenes (BTEX), Brownfield Remediation,

Chemical Depot Monitoring, Manufactured Gas Plant Remediation (MGP), Perimeter Ambient

Monitoring System (PAMS), Superfund Site Remediation, Tank Farm Monitoring

Installation Portable or permanent installation within shelter

System Specifications

Power Supply 100VAC to 240VAC, Single Phase 47-63Hz, 4A Max

Power Connection Environmentally sealed circular Amphenol bayonet connector.

Power Consumption 240W max

Cerex Monitoring Software (CMS) Windows® 10, 11 Operating System **Real Time Analysis Software**

USB, Ethernet, Bluetooth, WiFi Access Point and WiFi Station. Remote operable. **Data Connection**

Digital Interface MODBUS, VNC, and remote desktop. Spectral data may be stored locally, on a NAS, or

disabled. Industrial external wireless option available.
USB-C for data retrieval and peripheral accessories.
Cellular capable for full remote access and control from any PC, anywhere.

Sample Intake Rate 80 LPM

Sample Pump 3 meters, with quick connect fitting

Sample Gas Filtration 0.3 Micron

1/2" Quick Coupling; **Gas Fittings** Gas Inlet 1/4" Swagelok test adaptor provided

3/8" OD push-to-connect tube adaptor provided **Gas Outlet** Case Vent

Sample Cell Multi-pass, path length 17.0m - 22.0 meters (depending on application)

Detector Spectral Range Cryocooled MCT Photodetector 2 – 14 µm (microns) **Spectrometer**

Resolution User configurable: 1cm⁻¹, 2cm⁻¹, 4cm⁻¹, 8cm⁻¹, 16cm⁻¹, 32cm⁻¹

Best resolution 0.5cm⁻¹

Scan frequency Source 6 scans/s @ 32 cm⁻¹ SiC, 1550K

Beamsplitter ZnŚe Window Material Wavelength range ZnSe 600-4200 cm-¹

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Operating Conditions

3.5 hours STD 14.5 Hour Optional **Battery Life**

Temperature 0C° to 55C° (Air Cooled Model), or -40C° to 55C° (Thermoelectric AC Cooled)

Humidity 0 - 100% non-condensing Rain Direct exposure rated **Dust / Sand** Direct exposure rated

General purpose atmospheres - not rated for HAZLOC zones

Storage Conditions Temperature Humidity

-40C° to 60C° Below 80% (non-condensing)

Instrument Cooling Air cooled (optional thermoelectric air conditioner)

Sample gas pressure **Ambient 80 LPM** Sample gas flow rate

Maintenance

Bulb Life 4000 Hour Manufacturer Warranty 3.5 Hours, optionally to 14.5 hours **Internal Battery Life** Spectrometer 20,000 Hours

Options

Integrated Wind Mapping Three dimensional ultrasonic anemometer with temperature measurement. Data integrated into CMS data tables and available via MODBUS.

Optional external ports with data integration for particulate or ancillary co-located **Integrated Data Acquisition**

analyzers (TDLAS laser, electrochemical, etc.).

MODBUS over TCP-IP is standard. MODBUS over RS-232, RS-485. **Data Output**

8 channel configurable 0-24mA (4-20mA with extended range) **Analog Output**

Alarms User configurable concentration and TLV average

Up to 6 additional sensors (for compounds not available in UV spectrum) **Additional Sensors**

Performance Specifications

Zero-point drift? Automatic and manual zero point **Sensitivity drift?** Linearity deviation? < 2%, Self-Compensating **Temperature drift?** Pressure influence? **Background measurement interval?** < 2% FS / 24hr, Self-Compensating Zero gas?