UV Sentry Minimum Detection Limits at 500 Meter Path Length

Compound	PPB
Ammonia	0.6*
Acetaldehyde	3.2
Benzene	0.27
Carbon Disulfide	13.31
Chlorine	5
Ethylbenzene	0.3
Formaldehyde	3.2
Mercury	0.00002
Naphthalene	0.2
Nitrogen Oxide	0.29*
Nitrogen Dioxide	3.04
Ozone	2
Phenol	0.3
Styrene	0.6
Sulfur Dioxide	0.68
Toluene	0.84
m-Xylene	0.35
o-Xylene	3.77
p-Xylene	0.24

Ammonia and Nitric Oxide have maximum path lengths of approximately 75 meters when monitoring with xenon source UVDOAS and 125 meters with deuterium UVDOAS.

CEREX MONITORING SOLUTIONS
www.cerexms.com

brainco

UV Senty Specifications	
Analyzer	
Application	Open Path Mono-static Multi-Gas Analyzer
Maintenance	
Bulb Life	2000 Hour Half-Life Warranty (Xenon and Deuterium) TYP life-time 3000+ hrs
Installation	
Operating Temperature	0 to +40°C (extended ranges optional)
Cooling	Air Cooled
Operating Humidity	0-100%
Power	120 or 240VAC, 100W (DC Optional)
Enclosure	Powder Coated Steel, Aluminum
Weight	53 Lbs.
Dimensions	29 x 13.3 x 12.3 (in)
Mounting	Pan and Tilt Head via Dovetail
Performance	
Accuracy / Precision	> 5% Reading / 5% Reading TYP
Integration	
Data Output	.CSV via Ethernet and WiFi, ASCII via MODBUS TCP/IP
Data Output Options	RS-232, 422, 485, RF Stream, MODBUS RTU,
	MODBUS TCP/IP, Email, 4-20mA, 0-5VDC
Alarms	
Networking	LAN, WAN and USB Ports, optional
	cellular modem, optional radio modem
Optional HAZLOC	Z-purge and air conditioner for Class 1, Division 2, Groups A-D installation

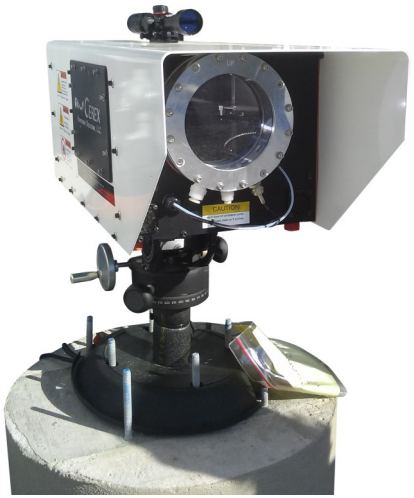
www.brainco.com.ar

www.brainco.com.ar

UV SENTRY

Open Path Multi-gas Analyzer

CEREX
MONITORING SOLUTIONS, LLC.



Cerex Open Path UVDOAS

The UV Sentry offers perimeter monitoring with among the lowest cost per meter monitored of any modern gas analysis system.

A single analyzer is capable of monitoring more than one kilometer of fence-line. Gapless perimeter monitoring not possible with point sensor technology is the norm, and long life low maintenance design ensures continued value for monitoring investments.

Offering real time quantification of multiple compounds, accurate measurement data is delivered along with real time data quality indicators and no inflated concentrations due to interferent background gases. The UV Sentry is offered fully configured to meet the requirements of your air quality monitoring application.

Part per Trillion and PPB detection limits enhance early leak detection and release characterization in real time. Clear down is immediate, and the analyzer cannot be poisoned.

brainco

Meets EPA Requirements as Alternative to 325A/B

Tested at EPA's NRMRL open path test range, the UV Sentry is confirmed to meet EPA criteria for a time resolved alternative for 325A/B monitoring compliance. EPA specifies for refinery fence-line monitoring UVDOAS systems must meet:

Sub PPB Detection Limits for Benzene

Insitu, Traceable QA Audit at Full Path with Ambient Interferent Gases Present

Time Resolved Monitoring

Real Time MDL Output as DQI

Real Time Signal Intensity Output as DQI

Retention of Raw Spectral Data

High Performance Monitoring

The UV Sentry achieves EPA criteria through use of a broadband, thermo-electrically cooled high resolution spectrometer. The entire UV spectrum is recorded every 50 milliseconds to allow data acquisition rates as low as fifteen seconds. The analyzer will alarm within seconds of detection events.

Simplified Quality Assurance

Cerex provides three methods for insitu quality assurance audits. All allow the analyzer to be challenged at operational path length, with ambient interferent gases present to provide a traceable verification of analyzer performance in operational configuration. We even offer a QA cell which slides onto the analyzer. It may be filled with calibration gas offsite, mitigating the need to maintain calibration gases on site.

Direct Modeling Integration

Like the Cerex AirSentry FTIR, the UV Sentry seamlessly integrates with measurement based plume dispersion models for emergency response, source location future event mitigation, regulatory reporting, and litigation response.

Contact Us

Cerex Monitoring Solutions, LLC.
1816 Briarwood Industrial Court, Suite D
Atlanta, GA. 30329

(678) 570-6662
info@cerexms.com

Visit us on the web: **www.cerexms.com**