



A M E R I C A N
ECOTECH

Air Pollution Monitoring Systems





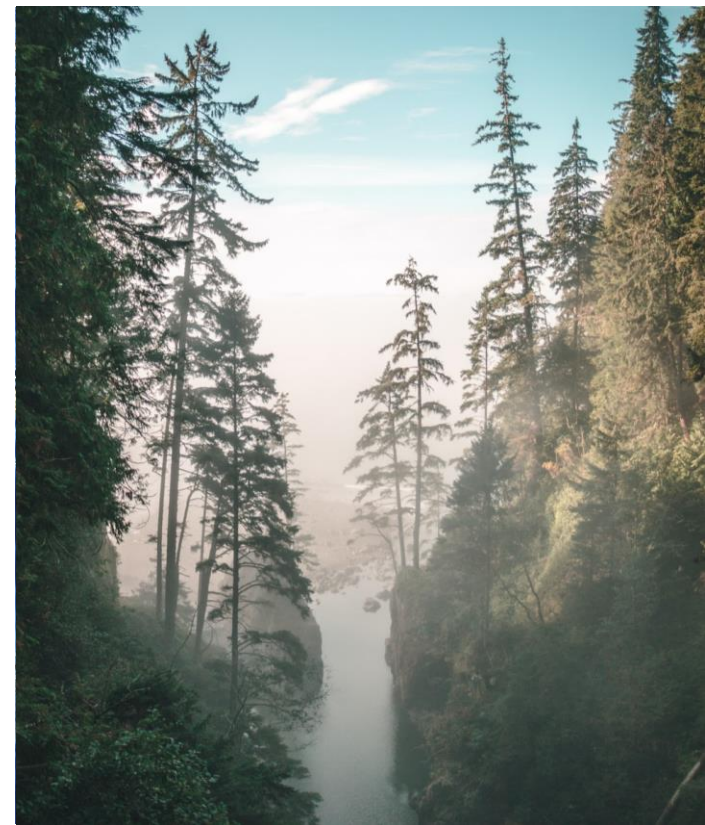
American Ecotech supplies state-of-the-art air pollution monitoring instrumentation for a wide variety of ambient monitoring applications. Our equipment is designed to provide high quality air pollution and meteorological data while minimizing the time spent on maintenance and calibration. With over twenty years' experience, our product range includes:

- **Criteria pollutant gas analyzers**
- **Trace gas analyzers**
- **Specialty gas analyzers**
- **Dilution calibrators, zero air generators, and scrubbing media**
- **Particulate sampling instruments (continuous and non-continuous)**
- **Visibility, TSP, PM10, PMc, PM2.5, metals, radioactive isotopes**
- **Smoke monitoring instrumentation**
- **Digital dataloggers with integrated remote station management systems**
- **Real-time air toxics/VOC monitors**
- **Meteorological instruments**

American Ecotech has full-service centers in the USA and Canada. We stock all instrumentation spare parts and consumables and have select rentals of instrumentation available.



Gas Analyzers



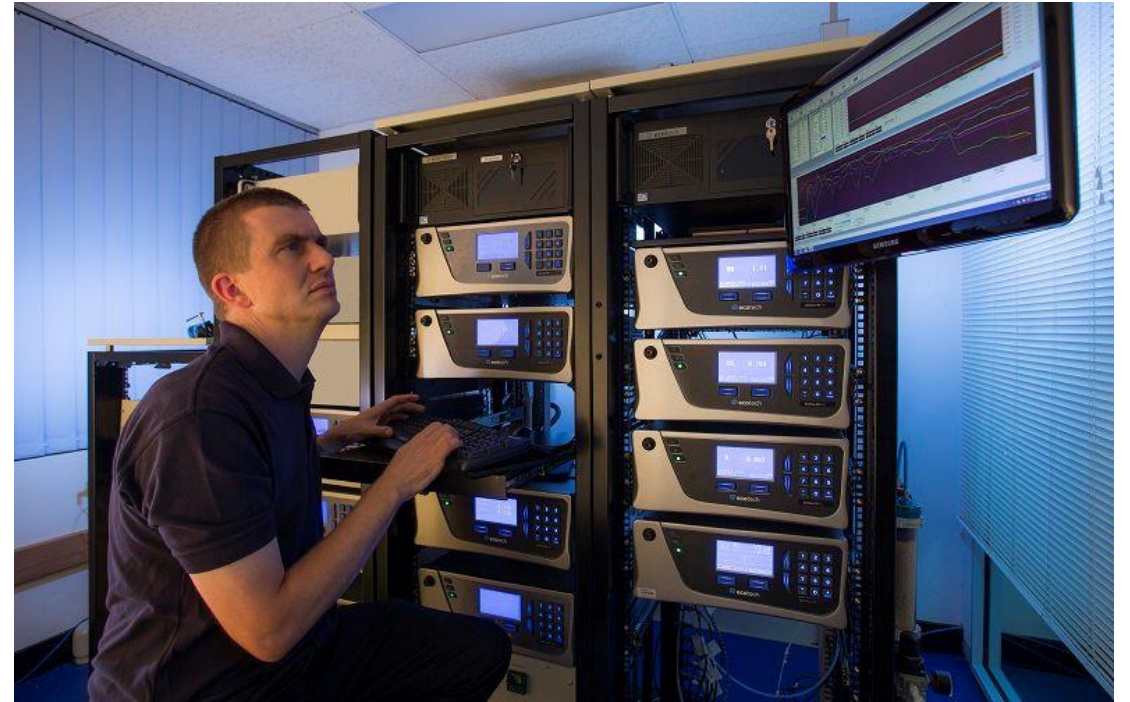
Serinus Gas Analyzers

Criteria & Specialty Pollutants

Gas	Model	Range
O ₃	Serinus 10	0 to 20 ppm
CO*	Serinus 30	0 to 200 ppm
NO/NO ₂ /NO _x ^{*∞}	Serinus 40	0 to 20 ppm
NH ₃ /NO/NO ₂ /NO _x	Serinus 44	0 to 20 ppm NH ₃
SO ₂ [∞]	Serinus 50	0 to 20 ppm
SO ₂ /H ₂ S	Serinus 51	0 to 20 ppm SO ₂ 0 to 2 ppm H ₂ S
H ₂ S	Serinus 55	0 to 2 ppm
Total Sulfur	Serinus 56	0 to 10 ppm
Total Reduced Sulfur	Serinus 57	0 to 2 ppm
NO ₂ (CAPS)	Serinus 60	0 to 1 ppm

*High range option available

∞Trace level option available



- USEPA Reference Method Equivalency Approved
- Minimize time spent on site performing maintenance via superior remote instrument control, diagnostic, and calibration
- Multi-user interface through RS232, USB, Bluetooth, analog, and optional TCP/IP
- Straightforward set-up through intuitive menu system with “Quick Menu,” advanced GUI and a conveniently new larger keypad with tactile keys
- Removable flash memory stores 10 years of data

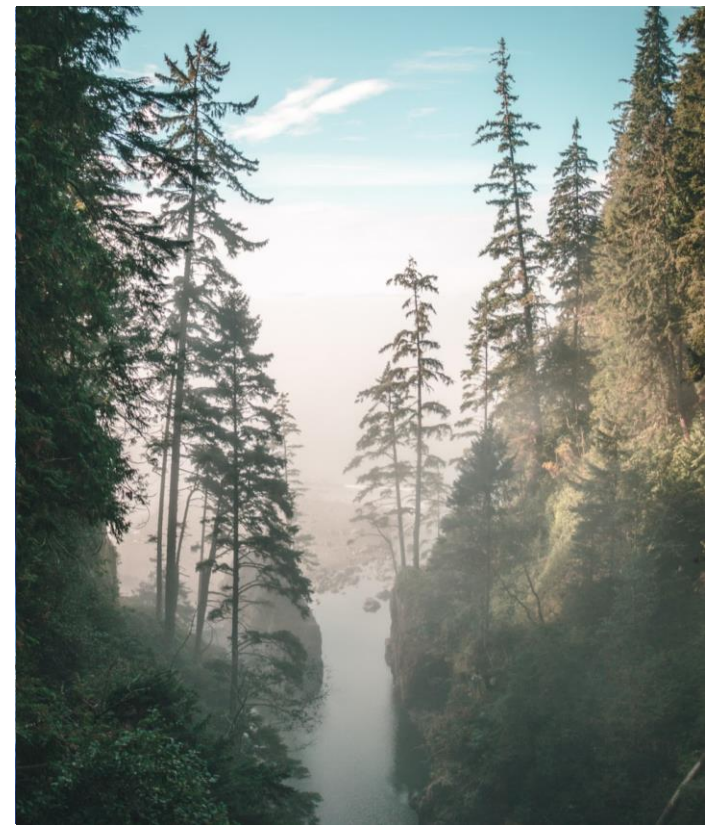
Serinus Gas Analyzers



Bluetooth communications enable portable touch pad through Android operating platform devices to connect directly to analyzers and calibrator.



Gas Calibrators & Ozone Transfer Standard



Serinus Dilution Calibrators

Model	Capability	Use With
Serinus 1000	Dilution Calibrator	CO, SO ₂ , many more...
Serinus 2000	Dilution Calibrator Ozone Generator	NO _x , NH ₃
Serinus 3000	Dilution Calibrator Ozone Generator Photometer	O ₃

The Serinus gas calibrators offer gas dilution calibrations, ozone analyzer precision checks, gas phase titrations and ozone transfer calibrations.

- Primary Source Mass Flow Controller: 10 SCCM Source MFC to 2 SLPM Source MFC (default: 50 SCCM MFC)
- Additional Source MFC: 10 SCCM Source MFC to 2 SLPM Source MFC
- Internal Photometer Option for O₃ Calibration
- Performs calibrations manually through user interface or remotely via RS232, USB, Ethernet, Modbus or analog



Ozone Transfer Standard

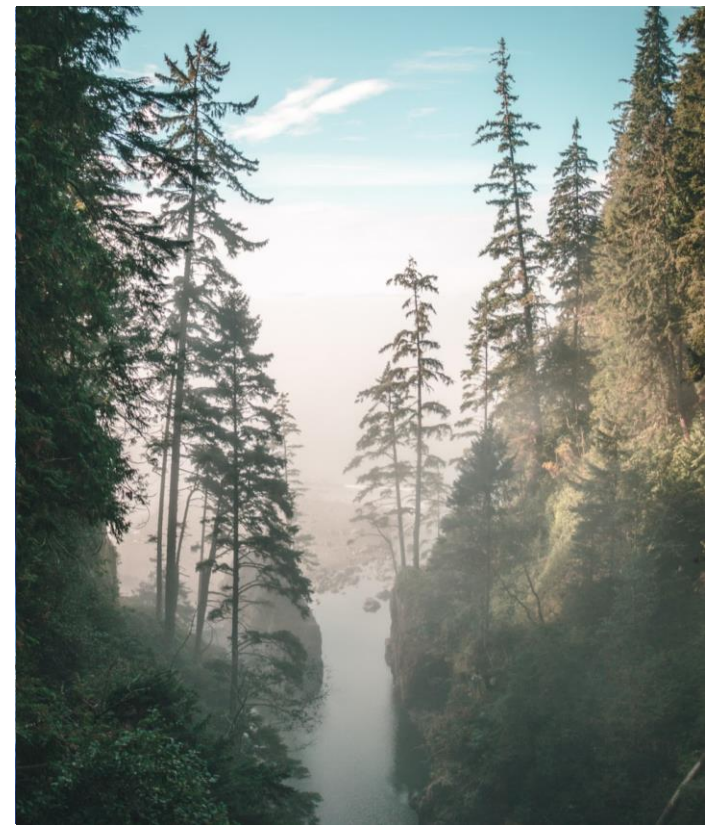
The Serinus Cal 300 Ozone Transfer Standard is a precision ozone calibrator that meets US EPA requirements for operation as an ozone photometer and ozone transfer standard.



- Capable of measuring and generating accurate ozone calibration levels
- Photometer accuracy: 1.0 ppb or 1 % of reading
- Ozone generator output 40 to 1000 ppb at 4 LPM
- 16 programmable sequences
- 32 programmable points



Particulate Monitors



Particulate Samplers

MicroVol

- PM2.5, PM10, TSP, meteorological data



HiVol

- PM2.5, PM10, TSP, meteorological data
- US EPA Manual Reference Method RFP5-0706-162 for PM10
- Remote unattended sampling



MegaVol

- Heavy metals, radioactive particulates



Visibility

Common visibility deterioration is due to high particles concentration or high humidity. Particles can be of natural or anthropogenic origin, for example, from car emission, wood burning, sandstorms or smog.



Aurora 1000 Nephelometer

This single wavelength nephelometer can be used for opacity measurement, aerosol light scattering, and particulate monitoring instrumentation, which is an integral part of an air or dust quality management system.



Aerosol Research Instruments

Aurora 3000

- Integrating nephelometer that facilitates simultaneous measurement across 3 wavelengths
- Full scatter, backscatter measurements
- Climate change research

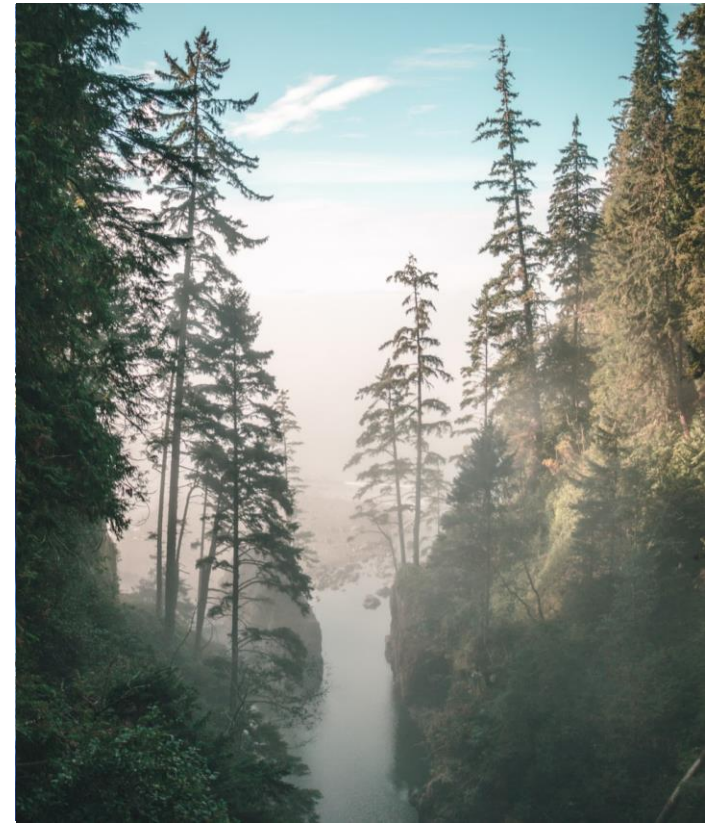


Aurora 4000

- Polar nephelometer measuring across 3 wavelengths
- Provides measurements of light scattering within up to 18 user selectable angular sectors, using varied backscatter shutter positioning
- Measures phase function – the amount of light scattered as a function of the scattering angle; a key parameter to accurately model the influence of the aerosol scattering on the earth's radiative balance.
- Climate research and modeling



Dataloggers & Data Acquisition Software



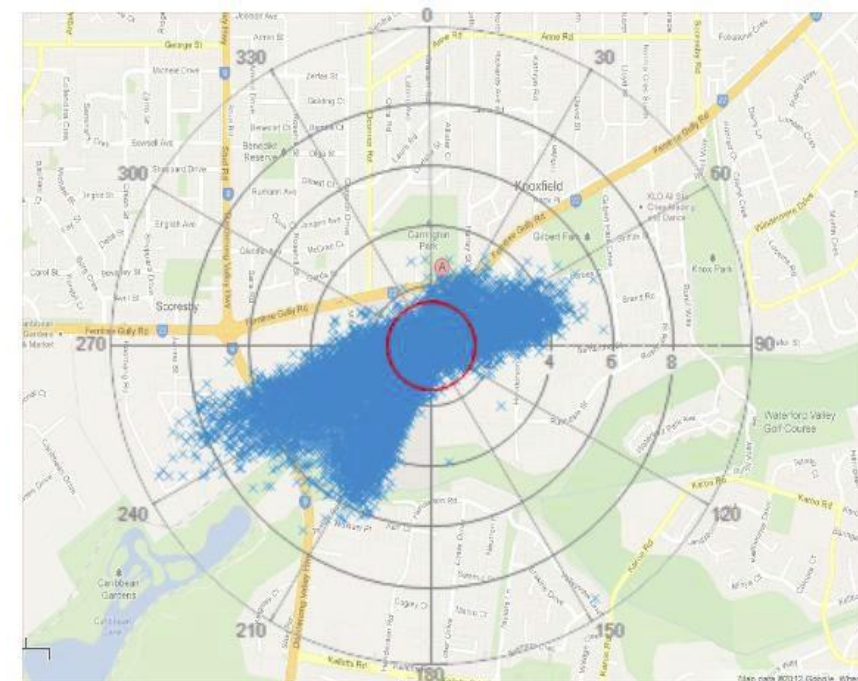
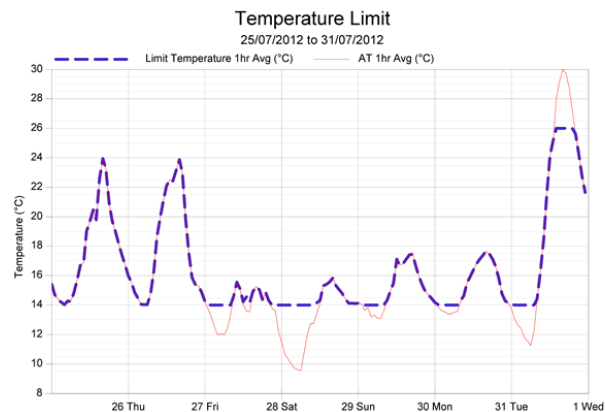
Congrego Datalogger

CONGREGO®	CONGREGO® LITE
Ideal for full-reference environmental monitoring stations.	Ideal for smaller meteorological stations, dust monitoring stations, & applications where greater density is required to achieve better special resolution, e.g. multiple units within a tunnel.
Designed by ECOTECH specifically for air quality & continuous emissions systems	
Simple set-up & easy to install with an intuitive & customisable user interface	
Compatible with a wide range of analogue & digital monitoring instruments from different equipment manufacturers	
Fulfils the traceability of records' requirement of ISO 17025	
Automated alarms & alerts on user interface	
Local or remote control of monitoring instruments	
Works with or without a live internet connection	
Seamless integration & configuration with Airodis™ data collection, validation & reporting software	



Data Collection, Validation, and Reporting Software

- **Airodis provides the user with the ability to automatically retrieve data from a wide variety of instruments and data loggers, perform audited automatic and manual data validation and generate a wide range of graphical and tabular reports.**

[illegible]

Contact Us



(401) 247-0100

www.americanecotech.com
info@americanecotech.com