

NEAR ROADSIDE MONITORING

At American Ecotech, we have been designing and installing near roadside monitoring systems for many years, including the deployment of the original US EPA near roadside study sites. From the basic addition of an NO₂ monitor through to a turn-key air quality monitoring station, American Ecotech has the instrumentation, expertise, and comprehensive technical support to implement your requirements for near roadside monitoring.

One of our priorities is operational efficiency, and our system integration enables remote management through the automation of analyzer measurements, routine quality assurance processes, and system function parameters. Our optimally sized monitoring shelters help eliminate wasted energy and reduce operational expenditures. These features translate to fewer operational station visits, assure precise and accurate data collection and maximum data capture, and all of this is achieved at extremely affordable pricing.

The US EPA has outlined Primary, Secondary, and Tertiary site requirements for near roadside monitoring stations. At your request, American Ecotech will customize your system to meet your requirements. We are able to provide you with individual analyzers or complete turn-key system packages. For example, our custom designed near roadside shelters are available for as little as \$25,000, and complete turn-key Primary systems can be purchased for less than \$120,000.

A specifically designed near roadside shelter is included in all Primary turn-key systems that we offer.



Advantages

- ◆ Supply everything from single instrument to full systems.
- ◆ Exceptional Analyzer Stability
- ◆ Lowest Operational Cost
- ◆ Easy to Operate
- ◆ Precise Data Collection
- ◆ Automated Remote Maintenance Capabilities
- ◆ Less Service Visits
- ◆ Unparalleled Tech Support

Primary Roadside Station:

Starting below \$120,000

- ◆ American Ecotech designed monitoring shelter
- ◆ EPA approved Serinus 40 NO, NO₂, and NO_x Analyzer
- ◆ EPA approved Serinus 30 CO Analyzer
- ◆ EPA approved Serinus 10 O₃ Analyzer
- ◆ Gas analyzer fully automated, remote controlled calibration system
- ◆ Comprehensive data acquisition system including digital logger and remote maintenance, acquisition, and validation software
- ◆ MetOne Wind Speed and Wind Direction anemometer
- ◆ Sampling manifold, instrument racks, and standard system support infrastructure
- ◆ Factory tested, fully plumbed and wired

Secondary Roadside Station:

- ◆ Everything included in Primary Roadside Monitoring Stations, plus any/all of:
- ◆ Continuous BTEX Gas Chromatograph for Air Toxics
- ◆ Aurora nephelometer for high resolution visibility and PM
- ◆ Black Carbon Monitor
- ◆ Ultrafine PM measurement
- ◆ Traffic Counters
- ◆ Factory system configuration for above additional equipment

Tertiary Roadside Station:

- ◆ Everything included in Secondary Roadside Monitoring Stations, plus any/all of:
- ◆ PM Course System (PM₁₀ and PM_{2.5})
- ◆ CO₂ analyzer
- ◆ Organic and Elemental Carbon

Advertised price is for American Ecotech near roadside designed shelter and listed instrumentation. Purchaser remains responsible for permitting, delivery, civil works, & taxes.

Additional instrumentation may be integrated at your request.

Exact prices will vary depending upon equipment selected.

Individual components or entire systems are available.

Different sized shelters are available for site specific configurations.

Prices can be adjusted to meet customized requirements.

All Primary Monitoring Stations Include:

Shelters: Individual shelter pricing begins at \$25,000

- ◆ Climate controlled, weatherproof, optimally sized, and energy efficient shelters

Calibration System:

- ◆ Gascal-1100 Dilution Calibration System
- ◆ Ecotech Zero Air Generation System

Data Acquisition System:

- ◆ Data logger with WinAQMS Data Acquisition System
- ◆ Airodis Data Evaluation & Reporting Software (alternative data acquisition systems available upon request)
- ◆ Rack Mountable monitor, keyboard, and mouse

Miscellaneous and Support Equipment:

- ◆ Full length instrument racks
- ◆ Auxiliary parts including tubing, pumps, and scrubbers
- ◆ Eight port Glass Sampling Manifold with controller
- ◆ Complete system plumbing and wiring schematics
- ◆ Instrument setup, commissioning, and full onsite equipment training (delivery charges are billed separately depending on location)

***One-year warranty on instrumentation.
(Two year warranty on Ecotech analyzers)***

Contact us to
see how we
can help:

PH: (877) 247-0403

FX: (401) 537-9166

info@americanecotech.com

www.AmericanEcotech.com

