



Air Quality Monitoring

Enviro Technology Services Ltd – World Leading Technology & Systems For Air Quality Monitoring.

Founded in 1983, Enviro Technology (ET) has firmly established itself as the world's leading supplier and service provider of air quality monitoring systems.

During this time it has remained faithful to its founding principles, to offer the very best monitoring technology available and to provide the highest levels of service and support.

ET can supply anything from just a single analyser right the way through to an entire, bespoke, sophisticated air quality monitoring network built around the clients exact needs.

Like a jigsaw puzzle, an air quality monitoring system is a sum of all the component pieces. As a result of 34 years of highly specialised knowledge and experience, ET can design, build, install and support virtually any combination of monitoring technology for virtually any type of application.

Operating an ISO 9001:2008 quality management system, quality is built in to every level of the business with customer care at its very core.



Continuous 'Ambient' Gas Analysers

T100 Series UV Fluorescence Analysers

Combines the proven UV Fluorescence principle with state-of-the-art microprocessor technology to provide accurate and precise measurements of SO₂, H₂S, TRS and sulphur compounds.

T200 Series Chemiluminescence Analysers

Provides the sensitivity, stability, accuracy and precision for the measurement of NO, NO₂, NO_x, NH₃



T200 NOx Analyser

Choose from low range standard and high range models from PPT, PPB to PPM concentrations.

NEW

T200P & T200UP (Low level)
Chemiluminescence NO, NO₂ and NO_x Analyser with photolytic 'Blue Light' converter.

T300 Series IR Absorption Series Analysers

Standard and low range analysers capable of measuring CO, CO₂ and N₂O by Gas Filter correlation IR Absorption Technology.

T400 Series UV Absorption O₃ Analysers

Real-time, high precision and fast response O₃ analysers from PPB, to PPM to % level O₃ applications.

T500 CAPS NO₂ Analyser

Representing the next generation of criteria pollutant monitoring technology for the direct measurement of Nitrogen Dioxide (NO₂) in air.

The T500U provides a direct NO₂ measurement, eliminating the need for catalytic conversion or reagents.



T500 CAPS NO₂ Analyser

NO₂ NO NO_x NH₃ H₂S CO CO₂ O₃ N₂O VOCs HC's

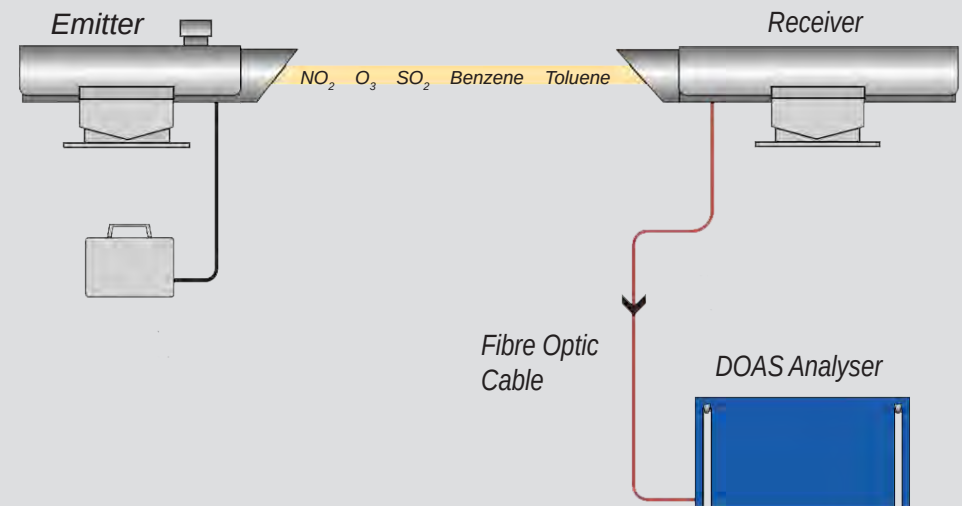
Open-Path Monitoring

Enviro Technology specialises in open-path, air quality monitoring systems based on Differential Optical Absorption Spectroscopy (DOAS).

DOAS systems are fully automatic, extremely flexible and, due to a minimum of human intervention, cost-effective to run. Every minute, several thousand cubic metres of air interact with a beam of light between a light-source and a receiver to provide a more representative sample than can be obtained with point sampling techniques.

ET systems are MCERTS, TÜV and US EPA approved.

Gases measured include NO, NO₂, SO₂, O₃, NH₃, Benzene, Toluene, Xylene and many others.



One DOAS system will operate several light-paths continuously measuring multiple gases over paths of up to 1km long. Any gas specified in the system's software can be measured, providing a facility to meet specific needs in a wide variety of applications.



Greenhouse Gas Monitoring, Isotopic Gas Monitoring and more

4th Generation Cavity Ringdown Spectroscopy (CRDS) Off-Axis ICOS technology for fast, ultra precise, high accuracy measurements of:

- CO_2 \ CH_4 \ H_2O (upto 10Hz)
- N_2O \ CO
- Isotopic H_2O
- Isotopic CH_4
- Isotopic CO_2
- Isotopic N_2O
- NH_3
- HF
- HCL
- CH_4
- NO_2

Isotopic N_2O Analyser



Greenhouse Gas Analyser

Ultraportable Greenhouse Gas Analyser (GGA)



Mercury Monitoring



Mercury Vapour Analyser 2537x

Continuous Ultra -Trace Mercury Analyser

Continuous, simple and unattended operation providing precision analysis of total gaseous mercury in ambient air with an update rate as low as 2.5 minutes and a detection limit of <0.1 ng/m³ (12 parts per quadrillion by volume).

The 2537x is easy to setup, use, and maintain and has long been known for its stable performance in rugged conditions

Particulate Monitoring

ET supplies a wide range of particulate monitors and samplers for PM_{10} , $PM_{2.5}$, $PM_{1.0}$ & TSP

Continuous Real Time Monitoring



BAM 1020 Continuous
Beta-attenuation Particulate
Monitor



ES-642
Particulate Monitor



EDM 180 (Environmental Dust Monitor)

Meteorological, Weather & Aerosols

Atmospheric and meteorological conditions play a major part in the formation and dispersion of air pollution. ET provides a range of meteorological sensors for stand-alone use or integration into air quality monitoring systems.



All-in-One (AIO) Weather Sensor
WS / WD / Temp / RH / BP



MPL (Micro Pulse LiDAR)
Measures the profiles and optical properties of
clouds and aerosols in the atmosphere.



Ultrasonic WS / WD



Mini MPL

VOC / HC Monitoring

GC955 POPC / VOC / BTX Analysers

Measures ozone precursors in ambient air. Two separate sample and column systems are used to measure C2-C5 and C6-C10 fractions. Methane and non-methane compounds are measured separately without relying on the efficiency of a catalytic converter.



GC955-600 Series Benzene / BTEX Analyser



Housings and Enclosures

In fact, ET can supply everything from small roadside enclosures through to large, walk-in cabins & trailers and even entire air quality networks.

ET has particular experience in the design and manufacture of:

- Roadside AQM Systems
- Permanent & portable 'walk-in' AQM systems
- Vehicle and trailer based AQM systems and mobile laboratories.

ET specialises in 'bespoke' designs and special purpose systems i.e. Emergency response.



Vehicle Based Mobile Laboratory



Static Enclosure



Walk-in Enclosure



Small Roadside Enclosure

Software

Continuous air quality monitoring equipment can generate huge quantities of data. Enviro Technology offers a range of software to help turn collected data into meaningful information that clients can use for many different requirements including:

- Regulatory reporting
- Data analysis
- Public information and websites
- Dispersion modelling
- Air quality forecasting

Taking advantage of internet distribution and “cloud” storage, users can access and work with their air quality data anywhere in the world and at any time using common internet browsers.



Envista ARM
(Air Resources Manager)

Calibration Systems

Many ET gas analysers can be specified with on-board internal calibration systems. In addition, ET supplies a range of station and portable calibrators for QA/QC checking.



T700 Dynamic Dilution Calibrator



Portable 750
Dilution Calibrator

Data Logging and Comms

ET supplies a wide range of data loggers and communications technology to enable fast, secure, reliable and efficient data collection and transfer.

- Fully expandable data loggers
- Webloggers
- GSM, GPRS, 4G / mobile internet
- Mobile wifi & webcams



Example Weblogger

Service and Support

Service and maintenance is a major part of our business and also central to our philosophy, to provide the highest quality service and customer support in our industry.

Our analysers and systems are very well designed and very reliable. For many AQM and CEMS applications, the analysers are in continuous operation, 24 hours a day, 7 days a week, 365 days per year.

To provide the best service in our industry we have:

- The UK's largest team of service engineers.
- Regional services bases throughout the UK.
- Service bases in Ireland and the Middle East.

In addition, all of our service engineers are factory trained to service and support the equipment we sell, and we also operate a very highly regarded Technical Support Engineer telephone helpdesk.

Testimonials

"I am really happy with the service ET provide, the response time is brilliant and the advice given is always professional and apt."

Regards, Dr Jolanta Obszynska, Leicester City Council

"Having a friendly, local engineer is an advantage aslo we think your move towards an electric fleet is a great asset."

Christina Saich, Canterbury City Council



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