

STREETNOX

Roadside ambient air quality monitoring



Compact, unobtrusive and narrow profile for kerbside location and easy planning approval.
Accurate, proven chemiluminescence analyser.
On board data logging, diagnostics & communications.
GSM modem with full remote control & calibration.
Includes calibration gas cylinder, permeation bench and zero clean up air.
Options for particulate monitoring or other gases.
Easy connection to a variety of power sources.



STREETNOX OVERVIEW

The Signal **StreetNOx** is a compact AQM (Air Quality Monitoring) system for NOx. **StreetNOx** can be located near to the main sources of urban pollution and comes complete in a space saving air-conditioned rugged enclosure.

StreetNOx uses the same proven technology found in the **Ambirak** AQM systems, which are already installed in demanding monitoring applications throughout the world.

StreetNOx uses the technique of chemiluminescence, as it is the most accurate and reliable method for monitoring ambient levels of NOx, where a 1 ppb resolution is required for a wide dynamic range. Using a single chamber cyclic analyser, the **StreetNOx** measures NO and total NOx sequentially by switching the NO₂ to NO converter in and out of the flow system. The converter cycle time is optimised for the fast changing levels in kerbside applications and is approved by NETCEN for use on the UK Government's AURN and roadside sites.

StreetNOx includes a data logger, paperless chart recorder and communications system to allow remote collection of AQM data over a GSM modem. The analyser outputs are sampled every second and one minute averages are transferred to the on board control computer for permanent storage.

The sample filters and zero air scrubber are easily accessible from one side of the double door cabinet, removing the need for access to the main analyser compartment. The control computer, which is PC based is also mounted in the same side and runs **Ambilog** software for logging, control and communications.

Remote control and data handling is easy with our **Ambidesk** software package. Running under MS Windows™, **Ambidesk** fully automates the collection, display and reporting of AQM data. **Ambidesk** is a complete multi-tasking software package, which provides both manual and automatic (scheduled) operation; such as data collection, data storage, data viewing, printing and reporting as well as re-transmission of data to another location.

SPECIFICATIONS

Enclosure

GRP insulated enclosure with security locks
Size: 400mm (w) x 1200 mm (d) x 1200mm (h)

Air Conditioning maintains 24°C, at ambient temperatures of -20°C to +35°C.

Power consumption Total: 1.2 KW (after start up)
20A rated supply required for air conditioning start up.

Surface Finish: Anti-vandal paint finish.

Specifications for NOx module

Measurement: Chemiluminescence technique

Measuring range: 0-1000 ppb as std
(others available)

Repeatability: +/- 1 ppb

Resolution: 0.01 ppb on logged data

Noise: +/- 0.3 ppb

Linearity: +/- 1% FSD

Zero drift: +/- 0.5 ppb in 24 hrs
(before autocal)

Span drift: +/- 1% FSD in 24 hrs
(before autocal)

Response Time: 6 sec (95%)

Specifications for Control PC

Hardware (typ): Pentium 2.2Gb HDD, 16Mb RAM

Operating System: MS Windows™ 2000

Data transfer rate: GSM limit - 9,600 baud

Software Options

Ambidesk and **Ambireporter** - automated data collection, remote operation and report generation
- see datasheets *DS04* and *DS17*

Options: The system can accommodate other parameters such as particulate monitoring, please contact Signal for further details.

Specifications subject to change without notice. All trademarks acknowledged.

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ISO9001-2000



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