automotive systems

The MaxSys 900 series of automotive emissions systems are designed for a range of engine exhaust emissions analysis applications.

- Gasoline/diesel
- Raw
- CVS
- Gas turbine
- Catalyst efficiency
- EGR
- Urea injection

Each system is configured to your order using our standard analysers and sample handling modules. With features such as fine bore tubing for fast speed of response and ultra-low concentration capability, the MaxSys 900 is designed for both performance and reliability.

The systems are capable of operating both as a stand alone system or integrated via high speed ethernet connection to most test cells.

MaxSys Software

The Model 102 host software is based on Windows NT and features advanced logging, alarm and control functions. Features include chart trace graphics, plug and play analyser configuration, automatic linearisation audits and multiple test cell capability.

sample handling

Signal manufacture a comprehensive range of ancillary products for gas sample handling and analyser test and calibration.

The extensive range has been developed with the OEM and system integrator in mind. We can supply all the components required to design and build industrial and automotive emissions monitoring systems.

Our range includes:

- Sample stack probes
- Heated lines and controllers
- Prefilters and distribution ovens
- Multipoint selectors
- Cooler dryers
- Air purifiers
- NOx and NH₃ converters

Test Equipment:

- Gas dividers
- NOx converter efficiency testers

Our range of products for testing and calibrating gas analysers can be used as bench top stand alone units or integrated into systems for remote control.

about us..........

Signal Group Ltd. design, manufacture and support a wide range of fixed and portable CEMs, AQMs and automotive systems in addition to sample handling and data acquisition components.

Signal Instruments Division, based near London, is focused on combustion emissions, automotive applications and VOC measurement. The Signal Ambitech Division in Oxford, specialises in gas turbine power station emissions and ambient air quality monitoring.

Signal Group Ltd. is an independent UK company with an extensive network of approved sales and service agents around the world. All our products are also available to hire from our Rental Division.

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Product overview

total solutions for emissions and air quality monitoring

- Air Quality Monitoring
- Continuous Emissions Monitoring
- Automotive
- Solvent processes
- Combustion/Research
- Sample Handling
The Ambirak family of products is used in national monitoring networks such as the UK’s Automatic Urban and Rural Network (AURN) operated on behalf of DEFRA. As the information is used for national reporting it is essential that the equipment utilises reference analysis methods, ensuring that data is traceable and carries a high confidence factor for auditing purposes.

The StreetBox range of indicative products provides a low cost, versatile pollution monitor capable of storing data in real time for a range of pollutants as well as local environmental information such as temperature, wind speed and direction and relative humidity.

The Emirak family of products for continuous emissions monitoring is a modular, cost effective solution to continuous compliance monitoring of stack gases. With MCERTS certification it is suitable for use on applications covered by either the large combustion plant or waste incineration directives.

Solutions for research and compliance monitoring of total hydrocarbons (THC/VOC/TOC).

Portable Solutions

The Model 3010 and 3030PM portable hydrocarbon analysers are ideally suited for measuring stack or other hot exhaust gases.

The Emirak CEM system uses the sample extraction method for stack gas analysis. This allows the application of the most accurate and sensitive analysis technology for each gas. Dry and wet analysis can be mixed in the same system and oxygen and moisture can be measured without requiring a separate stack insertion.

The Series III is a range of high precision gas analysers for combustion and other research. Representing the latest in analyser technology the Series III are compact analysers with a common set of features which gives a high level of user compatibility across the range.

Features and benefits:

- MCERTS
- Continuous
- Reference method
- Compact footprint
- Auto calibration
- User friendly computer driven interface
- Easy to maintain with automatic calibration
- Control, logging, report and alarm functions
- Wide choice of enclosures - mobile vans, cabins

The Brownlee Instruments series includes:

- 3000 series for hydrocarbon measurement
- 4000 series for oxides of nitrogen
- 7000 series for CO, CO₂, NO, SO₂, HCl
- 8000 series for oxygen
- Model 418 for gas purity and a range of difficult to measure infra-red active gases such as freon, N₂O, NH₃, dichloromethane and many more