

ECORAK

Mobile self-contained gas analysis system



The Signal Group EcoRak, a complete gas monitoring solution providing a cost-effective and reliable solution for gas emission analysis. Applications include stack emission monitoring, domestic and industrial appliance testing.



Ancillary products
working alongside our
gas analysers

SIGNAL
GROUP



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SPECIFICATIONS

The Signal Group ECORAK has been designed specifically for stack emission monitoring and the testing of appliances, boilers and burners for VOCs, CO, CO₂, O₂, NO/NO₂/NO_x, O₂ emission.

The system is self-contained, being housed in a 19" rack with wheels. The cabinet can house several S4 Gas analysers and ancillary equipment such as cooler, heated sample and handling units.



The versatile S4 range of gas analysers are designed for applications such as;

- Continuous Emissions Monitoring (CEMs)
- Automotive engine emissions
- Combustion/incineration emissions
- Solvent processes
- Research and analysis
- Specialty gases

S4 instruments come with their own IP address and run on Windows software.

The S4i software includes every aspect of analyser functionality so that users can

securely access their instruments via the internet. This means that they can check or set any parameter at any time and from anywhere in the world.

The front panel display of the S4 instruments is totally independent of the analyser operating system, which means that the analyser can be purchased without the display. This option is particularly popular with systems integrators.

S4 Reference method technology analysers

SOLAR - Heated FID VOC analyser: Total VOCs, Methane and Non-Methane hydrocarbons

- Flame Ionisation Detector (FID) for gas purity, air separation plant and process plant VOC abatement monitoring, engine emissions and combustion studies.

QUASAR - Heated vacuum chemiluminescence NO_x analyser: Nitrogen Oxides (NO, NO₂ & NO_x)

- Chemiluminescent Detector (CLD) for NO_x measurement in engine emissions, combustion studies, process plants, CEMs and medical gas production.

PULSAR - NDIR Multi-gas analyser: Up to 5 components including CO, CO₂, CH₄, N₂O and O₂

- Gas Filter Correlation (GFC) technology to measure only the gas of interest for industrial gas applications, combustion research, emission monitoring and gas purity.

AURORA - Paramagnetic Oxygen analyser: % O₂ accurate measurement

- Paramagnetic (PMG) technology for oxygen analysis in combustion testing, inert atmospheres, internal combustion engine exhaust and many more applications.

NEBULA - TDLS Ammonia analyser: Low detection limit 0.2ppm

- Tunable Diode Laser Spectroscopy (TDLS) based ammonia analyser for fast and accurate measurement in process & environmental monitoring, automotive and research applications.

S4 Detachable Wireless Tablet - Graphical User Interface (GUI)

Analysers are not always installed in the most convenient or safe environment; so the S4 Wireless Tablet is designed to provide operators with the freedom to manage their analyser remotely. Offering full functionality, the S4 tablet enables users to view data, manage configuration, data logging, alarms and calibration from a convenient location.



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