AR600 Series
Multi-Component Analysers for Continuous Emissions Monitoring and Process Control

The Opsis AR600 Analyser is the central unit of an Opsis Continuous Emissions Monitoring system. It receives light from one or more light paths via a fibre optic cable and provides data for presentation through Opsis software.

The analyser has a high-performance spectrometer. Here, received light is converted into digital signals and analysed by the built-in computer. The computer software includes the spectrographic ‘fingerprints’ of a number of user-specified compounds.

Using Beer Lambert’s Law, it detects and measures these compounds through the depletions they cause in the spectrum of received light.

The system refines results by calculating margins of error for each value and by noting the proportion of transmitted light received by the analyser. This allows both data and system verification.

Opsis is a fully modular system which may be updated or expanded at any time. An Opsis analyser includes interfaces for a multiplexer (required when using multiple light paths) and for a data logging system (required when integrating external signals from sensors) as standard. Furthermore, it is prepared for the addition of automatic calibration equipment. It is also prepared for purge air.

Communication ports are available for data transfer via modem, LAN or Internet, using optional communication devices.

Updating an Opsis system to monitor additional gases often involves a simple software upgrade.
Technical Specifications (standard)

Dimensions (L × W × H)  600 × 440 × 266 mm
Weight incl. case (approx.)  50 kg
Voltage supply  230 V (+6%, –10%) / 115 V (±10%) 50/60 Hz
Power consumption  110 W
Computer  Embedded PC with VGA screen
Flash memory  512 Mb
Serial output  RS 232C
Ambient temperature  +15°C to +25°C (+60°F to +80°F)
Degree of protection  IP 20

Standard Separately Ordered
Gas calibrations (see application sheets)

Specifications subject to change without notice

OPSIS AB
Box 244
SE-244 02 Furulund, Sweden
Telephone Int +46 46 72 25 00
Telefax Int +46 46 72 25 01
E-mail info@opsis.se
URL http://www.opsis.se