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.

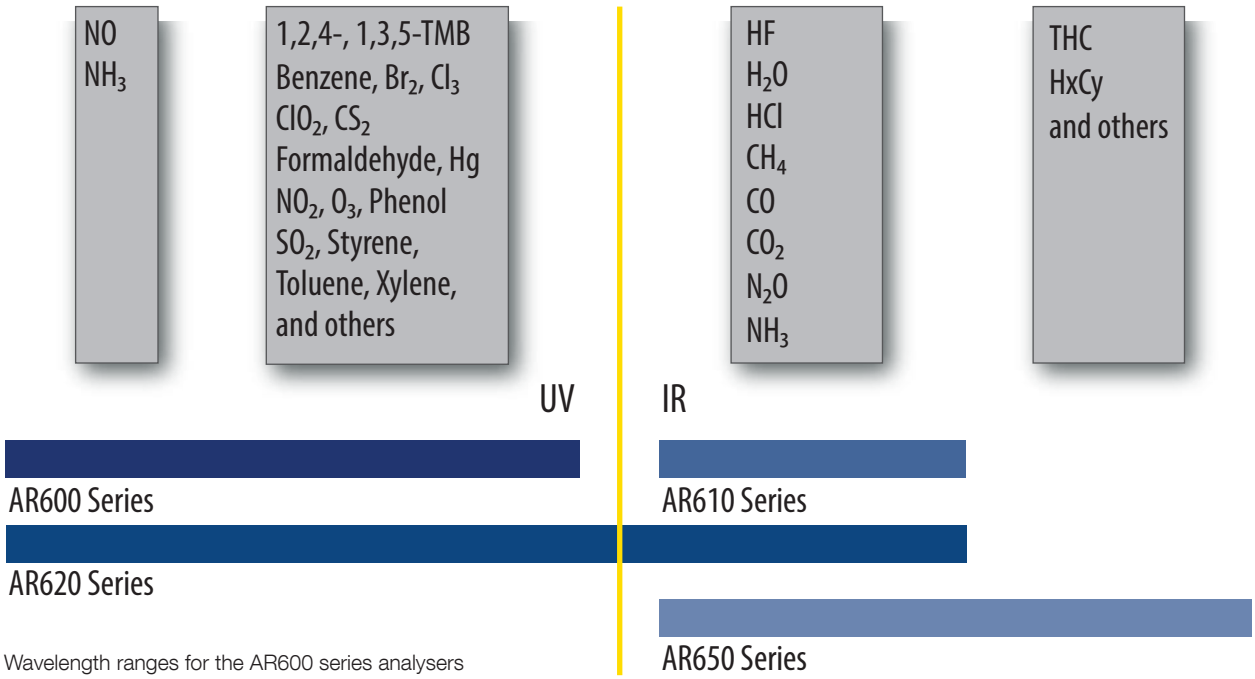
Using Beer Lambert's Law, it detects and measures these compounds through the depletions they cause in the spectrum of received light.

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.



Wavelength ranges for the AR600 series analysers

Technical Specifications AR600

Dimensions (L × W × H)	600 × 440 × 266 mm
Weight incl. case (approx.)	35 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)

Options

AR600M with one UV detector for marine applications
AR601 with one UV detector
AR602 with two UV detectors
AR603 with three UV detectors
AR610 with one IR detector
AR620 with one IR detector and one UV detector
AR620M with one IR detector and one UV detector for marine applications
AR650 with one IR detector
AR650M with one IR detector for marine applications
UV filter UF230 series
Temperature controlled cabinet
EnviMan software
Calibration equipment
WT256 Web transfer
IO256 Signal handling system
Ambient pressure and temperature sensors
Short-haul modems