versa06

FTIR ANALYZING SYSTEM

Simple Touchscreen Operation

Easy Charging for Automatic LN2 Refill

mks inside

Based on our long lasting experience with the FTIR technology the IAG versa06 is a reliable and service-friendly measuring system with high precision and stability.

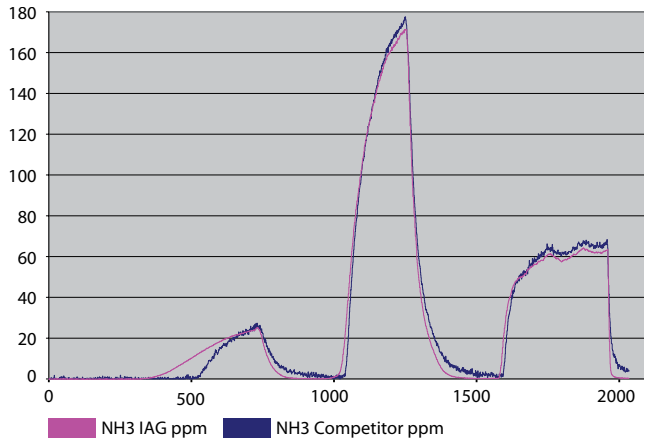
User friendliness, high dynamic, careful gas flow, easy maintenance and the flexibility of the modular IAG design are important advantages of the **IAG versa06** exhaust analyzing systems.

IAG versa06 stands for high availability and low operating costs, optimizing your use of resources. Based on our years of experience in treating sample gas, one of the greatest strengths is its ability to analyze even gas components that are hard to detect.

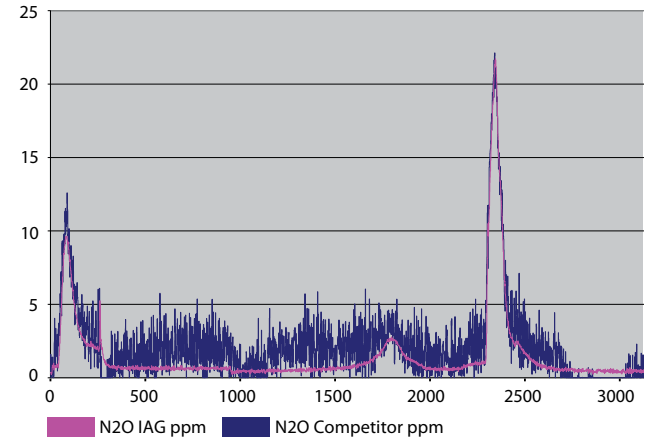
Calibration:
Every available analyzis method and calibration type is included in this model. The library is constantly being extended, with all updates being automatically passed on to users. Calibrations are permanently stored on the device and checked once a year.

Accuracy and Response:

NH3



N2O



Fast response in NH 3 measurement. Clear N2O signal down to far below 1 ppm. This data was recorded in a comparative measurement with a reference system. Both samples were taken from one sample point with a flow of 7l/Min.

Careful gas flow within the device plays a central role in the detection of components that are hard to measure. The benefits of the IAG FTIR technology is based on optimized gas flow without any cold spots as well as closed loop control for pressure and temperature in the gas cell are the base for the precision of the system. As an option the flow can be adjusted and controlled. For high dynamic measurements a high speed version with a measuring rate of 5Hz is available.

Communication:
The options for communication with the test bench environment range from AK serial, TCP or remote desktop connection to straight-forward bit parallel control. Adaptation to meet customers' needs and providing custom solutions is our standard.

IAG - Industrie Automatisierungsgesellschaft m.b.H · Industriestraße 2 · 2722 Weikersdorf · T +43 2622 21734/77 · F +43 2622 21734/85 · E s.handler@iag.at

versa06

Safety:
Reliable use of the FTIR technology requires new overall concepts of FTIR analyzing systems. The **IAG versa06** includes a safety system which protects the device from damage in case of an interruption of the voltage or purge air supplies by full automatic purging.

Sampling:
The **IAG versa06** can be combined with any IAG sampling modules. The options here extend from a simple heated line sucking the sample, to extensive multiple extraction systems with pressure regulators, switching units and high temperature extraction lines. All sampling modules are remotely controlled by the measurement device itself and are displayed at the device display panel. Every parameter such as temperature and switching status for the entire system can be configured and operated from a central location.

Service:
We take care of our customers with individually tailored maintenance solutions. Our offering ranges from full service contracts covering all running costs to servicing by the user who, thanks to the IAG modular system, can carry out all maintenance work himself quickly and easily. Capable care and optimum support are 'givens' for our customers.

Detectable Components Overview:

Acetylene	C2H2	Hydrogen Sulfide	H2S
Acetaldehyde	C2H40	Isocyanic Acid	HNCO
Acrolein	C3H40	Methane	CH4
Ammonia	NH3	Methanol	CH40
1,3 Butadien	C4H6	m-Xylene	C8H10
Benzene	C6H6	Nitric Oxide	NO
Carbon Dioxide	CO2	Nitric Oxides	NOx
Carbon Monoxide	CO	Nitrogen Dioxide	NO2
Diesel	-	Nitrous Oxide	N20
Dodecane	C12H26	o-Xylene	C8H10
Ethane	C2H6	Propanal	C3H60
Ethanol	C2H60	Propane	C3H8
Ethyl Benzene	C8H10	Propylene	C3H6
Ethylene	C2H4	Sulfur Dioxide	SO2
Formaldehyde	CH20	Toluene	C7H8
Formic Acid	CH202	Total Hydrocarbons	THC
Hydrogen Cyanide	HCN	Water	H20

Advantages

+ Precise Closed Loop Gas Cell Pressure Control
+ Short Gas Lines
+ High Dynamic
+ Automatic LN2 Refill
+ Easy Operation and Maintenance
+ Precise Measurement
+ Flexible Setup
+ Low Operating Costs
+ Fixed Calibration
+ Automatic Leak Test

Options

- Integration of Additional Analyzers e.g. for HC or O2 Measurement
- Adjustable Sample Gas Flow
- High-Speed Version with 5Hz Sampling
- Automatic Refill of Liquid Nitrogen
- Integrated Purge Gas Generator
- Cabinet Air-Conditioning for High Ambient Temperatures
- Gas Removal with Condensate Reservoir
- Integration of Sampling Systems
- Various Pump Performance Available
- Optional Bag Measurement
- Inert Coating
- EPA 1065 Test Procedures
- Special Calibration with 2 % Linearity
- Zirconia Oxygen Measurement
- Lambda Sensor

Technical Data

Dimensions:	900 x 600 x 1260 mm
Sampling Rate:	1 Hz / 5 Hz
Sample Flow:	8-10 l/Min or 12-15 l/Min
Sample Flow 5Hz:	20-25 l/Min
Sample Flow Adjustable:	3-10 l/Min or 4-15l/Min
Sample Flow 5Hz Adjustable:	5-25 l/Min
Purge Gas:	Nitrogen 5.0 or Purified Air
Detector:	MCT
Gas Cell:	5.11 m Path Length, 200 ml
Spectral Resolution:	0,5 cm^{-1}
Gas Cell Temperature:	190 °C
Compressed Air Supply:	5 bar, Dry and Oil-Free
Power Supply:	400 V / 16 A CEE

Gambetti
Vacuum Technology and Related Solutions
Via A. Volta n. 27
20082 Binasco (Milano)
Tel. 39 02 90093082
Fax. 39 02 9052778
info@gambetti.it
www.gambetti.it
www.plasmi.eu