

versa06 plus

EXHAUST GAS ANALYZING SYSTEM



Simple
Touchscreen
Operation

Easy Charging for
Automatic LN2 Refill

mks inside



The versa06 plus measuring system offers a wide variety of configuration options, “plus” stands for the combination of FTIR and conventional measuring technology.

The IAGnGversa06 plus combines in a single system the wide range of options offered by FTIR technology with the reliability of standard measurement technology.

The outstanding features of the IAG nG versa06 plus include ease of use, large dynamic measurement range, precise gas feed, maintenance friendliness and the flexibility offered by the IAG nG module system.

Calibration:

Dependable use of FTIR technology also means specific considerations as to how a measurement device is designed. As with any measurement device that needs to be used flexibly and if necessary,

directly in the test cell, the FTIR can only show its true strength if the overall design of the device has been developed accordingly.

This has required developments ranging from a climate control unit for high and fluctuating ambient temperatures to safety switches that safeguard the device from damage in the event of an interruption to the voltage or purge air supplies.

Analyzers:

Our aim is to provide the ideal solution for any application and to allow every user to make use of tried and trusted measurement technology. We therefore support the option of integrating all analyzers available on the market and of combining these to achieve a complete customized system.

Gas Feed:

Precise gas flow within the device plays a central role in the detection of components that are hard to measure. This system is based on an optimized design, providing for the shortest possible gas flows as well as precise pressure levels and temperature conditioning. Users have the option of disconnecting analyzers individually from the gas flow without affecting the system dynamics, or to make measurements only using the FTIR with a short sampling line via a separate sample gas inlet. The use of a heated sample gas pump renders the system insensitive, within a wide range, to varying pressures at the sampling point.

Communication:

The options for communicating with the test cell environment range from AK serial, TCP or remote desktop connection to straightforward bit parallel control. The measurement reading can be outputted via the relevant interface, or via fully customisable analogue outputs where storage of measurement readings can be started or triggered independently by the measurement process. Adaptation to meet customers' needs and providing custom solutions is the norm for us.

Operation:

The system is operated either directly using the 17" TFT touch screen or via remote desktop. The user interface of the IAG nG versa06 plus is structured clearly and flexibly and offers all the features users have come to expect from advanced control interfaces.

Sampling:

The IAGnGversa06 plus can of course be combined with any IAGnG sampling module. The options here extend from a simple heated line, serving as a suction feed for the measurement device, to extensive multiple extraction systems with pressure regulators, switching units and high temperature extraction lines. All sampling modules are remotely controlled from the measurement device itself and are also displayed in the device display panel. This means that every parameter such as temperature and switching status for the entire system can be configured and operated from a central location.

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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 nG 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	C2H4O	Isocyanic Acid	HNCO
Acrolein	C3H4O	Methane	CH4
Ammonia	NH3	Methanol	CH4O
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	N2O
Dodecane	C12H26	o-Xylene	C8H10
Ethane	C2H6	Propanal	C3H6O
Ethanol	C2H6O	Propane	C3H8
Ethyl Benzene	C8H10	Propylene	C3H6
Ethylene	C2H4	Sulfur Dioxide	SO2
Formaldehyde	CH2O	Toluene	C7H8
Formic Acid	CH2O2	Total Hydrocarbons	THC
Hydrogen Cyanide	HCN	Water	H2O

Advantages

- + Precise Closed Loop Gas Cell Pressure Control
- + Customized Analyzing Modules
- + Short Gas Lines
- + High Dynamic
- + Automatic LN2 Refill
- + Easy Operation and Maintenance
- + Precise Measurement
- + 5 Hz Sampling Rate
- + Flexible Setup
- + Low Operating Costs
- + Fixed Calibration
- + Automatic Leak Check

Options

- Integration of Additional Analyzers e.g. for HC or O2 Measurement
- Adjustable Sample Gas Flow
- 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
- Bag Measurement
- Inert Coating
- EPA 1065 Test Procedures
- Special Calibration with 2 % Linearity
- Zirconia Oxygen Measurement
- Lambda Sensor

Technical Data

Dimensions:	1045 x 610 x 1700 mm
Purge Gas:	Nitrogen 5.0 or Treated Compressed Air
Analyzers:	FTIR, NDIR, PMA, FID, CLD, TDLS etc.
Compressed Air Supply:	5 bar, Dry and Oil-Free
Power Supply:	400 V / 16 A CEE