

Reliability

Isostack G4 uses quality components which grant reliability in time.

Last generation electronics, which assures high immunity from electromagnetic noisy and designed to work even in severe ambient conditions.

Advanced autotest functions: allow to point out anomalies and malfunctioning before starting the sampling and eventually to proceed by-passing the anomaly.

Simplified and reduced maintenance: the new pneumatic circuit, the components' arrangement and the removable wide carter frame, make the maintenance operations fast and easy to perform.

"Block pump" function, in case of accidental liquid suction: it switch off automatically the pump, avoiding its damage.

Software upgrade via USB: the customer can update the instrument himself every time a new software version is released.



Keypad

Accuracy/Sampling quality (QA/QC)

Isostack G4 allows to follow quality control procedures for the automatic isokinetic sampling.

Calibration traceability of each sensor and measured parameter. Isostack G4 stores each calibration performed by the user and the manufacturer. The report is downloadable via USB.

Calibration curve on 5 points for each sensor and acquired width.

Correction curve on 5 points programmable by customer for each sensor. Allows to adjust deviations eventually found during re-calibration.

Volume measurement redundancy now coming from a mass and a volume meter.

Autocalibration function: permits to verify the calibration of flow and volume measurement elements and eventually to adjust them to an external reference.

High precision pressure sensor with thermal drift compensation.

Thermocouple calibration curve following ITS 90 standard.

Parameters saved on instrument's report:

- Instrument's serial number
- Sampling date/hour
- Duct's temperature
- Duct's absolute pressure
- Flue gas velocity
- Duct's flow
- Duct's parameter
- Sampling duration
- Atmospheric pressure
- Sampling line pressure
- Sampled volume
- Nozzle's flowrate
- Sampler's range
- Isokinetic deviation
- Heated box temperature
- Heated probe temperature
- Condensation bath temperature
- Condensation bath's gas outlet temperature

Stored report type

Measurement report
Punctual report
Sampled point summary

Measurement Log
Parameter's record with time
Programmable integration

Report format

- Compatible with the following operative systems: Windows XP and 7, Linux, Mac OS, Google Chrome OS.
- Compatible with Microsoft Office, generic database, SUN Open Office suite.



Isostack G4 all in one version