Stack gas velocity and flow meter with Pitot Tube

FLOWTEST St

USB

Main Characteristics:

- In accordance with UNI EN 13284, ISO 9096, UNI 10169, EPA M2.
- Compatible with major Pitot tubes and thermocouples in the market.
- **USB** interface to download data.
- Graphic interface hightly intuitive and simple.
- Pressure sensors hightly accurate, with thermical drift compensation device.
- **Wide library** with specifications of the most common ducts
- **Datalogger** function with saving data on USB key (supplied with the instrument).
- Power supply with alkaline batteries and/or rechargeable AA type, replaceable by the customer.
- Battery autonomy up to 24 hours.
- Available with COFRAC certificate (for laboratory accredited with ISO 17025)

Flowtest ST establish new standards for stack gas velocity and flow meters with Pitot tubes.

Completely renewed compared to the old model, it boasts characteristics that highlight it compared to similar instruments in the market.

The classic functions of velocity performance and isokinetic sampling have been improved and made easier and more flexible.

With the new software the user can change the time duration per point, repeat a measurement point or recover an incomplete profile already stored in an easy and simple manner.

The new Flowtest ST uses an USB port: to download data, simply insert and copy files onto a common USB key.

File format is compatible with all browser and the most common spreadsheet.

Sensor calibration has been performed with high accuracy and care.

Each sensor is calibrated through an accurate procedure and is traceable to standards.

Each instrument is supplied with a calibration certificate or with a COFRAC certificate (optional).

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The most important parameters are easily seen on the wide graphic display.

The status bar shows the name of the site in which you are working and the battery life.

The lower bar shows a menu that, through the function keys, allows quick and intuitive navigation.

Display during measure range

The numeric keypad simplifies the data entry procedures.

Flowtest ST is supplied with a large carrying case for cables and accessories.

Utility programs and functions

Flowtest ST includes the following utility programs:

• Programmable library with the specifications of the most common ducts exportable through USB onto PC

• Indication of duct measurement grid and calculation of the sampling points for circular and rectangular ducts

• Determination of the velocity profile and storage of the measurement report

• Nozzle calculation to use, based on the characteristics of the duct and the suction unit used

• Automatic autozero function: the differential pressure sensor zero can be performed with the probe in the duct, without disconnecting the tubes (optional)

• Surveillance function (data logging on a fix point) with continuously logging of the measured parameters with time interval between 30 seconds and 1 hour, with storage on USB key

• Isokinetic samplig program that includes:
  - Identification of the measurement flow to set;
  - Storage of instrument's volume and temperature readings;
  - Storage and measurement report with indication of duct parameters and sampled volumes.

• Wide preconfigured report:
  - velocity profile with point-by-point and summary report;
  - isokinetig sampling with point-by-point and summary report;
  - log of all measure point's thermodynamic parameters

Saving and exporting data on a USB key (supplied with the instrument)

Technical characteristics

Differential pressure

Range	0 - 1000 Pa (0 - 100 mmH$_2$O)
Combined hysteresis and linearity	0.25 % F.S.
Accuracy	better than 1% of measure ± 2 Pa
Resolution	0.1 Pa (0.001 mmH$_2$O)
Differential pressure max	30 000 Pa (3000 mmH$_2$O)

Absolute Pressure
(static or barometric)

Range	0 - 105 kPa (1050 mBar) absolute
Combined hysteresis and linearity	0.25 % F.S.
Accuracy	better than 1% of measure ± 0.1 kPa
Resolution	0.01 kPa (0.1 mBar)

Temperature Measure

Resolution	0.1 °C
Usable Thermocouples:	
Thermocouple type "K"	0 + 1200 °C
Accuracy	1% of measure ± 0.4 °C
Thermocouple type "J"	-20 + 600 °C
Accuracy	1% of measure ± 0.4 °C
Thermocouple type "T"	-200 + 400 °C
Accuracy	1% of measure ± 0.4 °C

General specifications

Working Temperature	-20 +40 °C 95% UR
Power supply	n°4 alkaline battery type AA (or rechargeable)
Battery autonomy	up to 24 hours
Display	Graphic LCD 128x64 pixel
Keypad	Membrane with tactile effect
USB Port	USB 1.0; 1.1 e 2.0
Weight	550 g (including batteries)
Dimensions	115 x 230 x 45 mm

A wide selection of Pitot tubes are available for different application. For more information, see Product Data 1.100.03

Codes for orders

Flowtest ST	P/N	AC99-004-0010SP

supplied with:
 - USB key 1 Gb
 - Carrying case
 - Quick connection kit
 - User's manual
 - Calibration certificate
 - 4 alkaline batteries type AA

Connecting cable for measurement probe	Lenght	1,3 mt
	P/N	AC99-004-9920SP
	Lenght	3 mt
	P/N	AC99-004-9921SP
4 rechargeable batteries type AA	P/N	AC99-004-9931SR
Battery charger for rechargeable batteries	P/N	AC99-004-9930SR

Carrying case

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