



ISOCHECK TSB

Portable flowmeter

MEGA SYSTEM
s.r.l.

POLLUTION CONTROL SYSTEMS

ISOCHECK TSB is the most full-featured and advanced among the automatic processors for thermodynamic parameter measurement. It allows to perform speed and low rate measurements in compliance with the standard UNI EN 16911 in force; if connected to a LIFETEK series sampler, it allows to perform automatic isokinetic emission sampling operations in compliance with standards UNI EN 13284 and ISO 9096.

Embedded in a practical anti-shock plastic suitcase with degree of protection IP67, it is equipped with independent sensors for the measurement of pressures (differential, static and barometric) to meet the "precision" requirements set out by the standard. It has no data processing limits, thanks to the built-in microprocessor supporting the Windows operating system. The large colour touch screen, finally, allows to display and very easily program a considerable amount of data and information. The instrument is compatible with all commercially available Pitot tubes and thermocouples (K), and is available in a LAT-certified version (as required for ACCREDIA accreditation).



Main features:

- high-precision digital pressure sensors which don't require a micro valve system for periodic resetting to compensate for the thermal drifts
- 10" colour TOUCH display for display and programming
- calculation of measurement and collection points, density, condensate, speed, actual and standardized flow rate, as well as of the isokinetic flow along with the relevant nozzles
- calculation of the diameter of the nozzle to be used for PM10 (EPA method 201A)
- management of in-duct measurements, of isokinetic sampling and of branched line sampling
- Measurement integration and parameter logging at programmable intervals ranging between 10 and 300 seconds
- customer personal data management
- duct/system library
- interface with LIFETEK series samplers for automatic isokinetic collections.
- data logger function
- permanent memory
- host USB interface for the downloading of data in TXT and CSV format to a USB key (included in the supply)
- backup batteries in case of power supply failure
- mains power supply

The instrument is sold complete with USB key, technical manual and test report.

Note: The test report also specifies the calibration procedure used and the primary reference standards. The primary standards used are certified by LAT Centres or by international Calibration Centres accredited by bodies which are members of E.A. – European co-operation for Accreditation (an association representing the European accreditation bodies)



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TECNICAL SPECIFICATION

MEASURED PARAMETERS

Differential Pressure Sensor

Range: 0 ÷ 100 mmH₂O (0 ÷ 1000 Pa)

Resolution: 0,01 mmH₂O (0,1 Pa)

Precision: ± 1 % of the measured value

Static Pressure Sensor

Range: -1000 ÷ 1000 mmH₂O (-10.000 ÷ 10.000 Pa)

Resolution: 1 mmH₂O (1 Pa)

Precision: ± 1 % of the measured value

Barometric Pressure Sensor

Range: 800 ÷ 1100 mbar

Resolution: 0,1 mbar

Precision: ± 2 mbar

Thermocouple Type K

Range: 0 ÷ 1000 °C

Resolution: 0,1 °C

Precision: ± 1 % of the measured value (in Kelvin)

Linearity: ± 1 °C (software linearization)

CHARACTERISTICS

Interface for management programming

LCD Display TOUCH SCREEN of 10"

Data download interface

USB (on flash drive)

Memory

over 500MB

Operative temperature

-10 °C ÷ +40 °C - 95% UR

Power

Main power: [input 230Vac – 50Hz / output 18Vcc – 2A]

Size and weight

330x290x155mm – 6Kg