Multifunction calibrator

FLOWGALtin

<u>USB</u>

Main Characteristics:

- Reference calibrator to measure:
 - Flow

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s.r.l.

ICR TECORA

- Absolute Pressure
- Differential Pressure
- Temperature (1)
- Flow calibrator with interchangeable measurement cells
 - **Flowcell Air**, available in different ranges
- Possibility to use orifices calibrated from other samplers' brand (for ex. Tisch)
- High precision pressure calibrator, with thermal drift compensation device
- Creation of calibration report
- Easy and intuitive graphic interface
- Power supply with alkaline batteries and/or rechargeable AA type, replaceable by customer
- Battery autonomy up to 90 hours
- Internal memory capability: up to 256 report
- Available with ISO 17025 accredited laboratory certificate (optional)

Flowcal Air, more than a simple flow calibrator....

A single instrument allows to perform all necessary controls to verify the calibration of some parameters, which are normally measured by sampler, like flowrate, pressure and temperature. This characteristic makes Flowcal Air unique to test the accuracy of an instrument and to follow a quality system procedure.



This is very important to follow a quality system procedure. Flowcal Air generates a calibration report, containing the following data: cell in use, calibration expiration date, ambient conditions during verification test, deviations, test date and hour, etc. It is no longer necessary write paper reports.

Flowcal Air has an USB port: to download the report, simply insert and copy files onto a common USB key. Sensor and measurement calibration have 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 ISO 17025 accredited laboratory certificate (optional).



(1) with optional temperature probe

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Flowrate cells FlowCell Air

The flowrate cells, Flowcell Air, are calibrated individually: each cell saves on its microchip all the information for the calibration traceability.

How to use the measurement cell

With Flowcal Air it is very simple: just connect the cell to the instrument and switch it on. Immediatly the cell will be recognized, therefore will be available for the flow measurement.

Each cell has an ambient temperature sensor screened from the solar beam. It is possible to connect the measurement cells to LVS and US EPA sampling heads.



FlowCell Air technical characteristics

Cell material Anodized alluminium Flow measurement accuracy 1 % F.S. cell Working temperature -20 +60 °C

Built-in temperature sensor

Type digital 12 bit

Accuracy better than 1% of measure ± 0.2 °C Range -40 +85 °C

Code for order FlowCell Air cells

Hi Flow cell

Range 150 - 600 l/min Code AB99-008-0010SP

Mid Flow cell

Range 10 - 60 l/min Code AB99-008-0011SP

FlowCal Air HiDP for USEPA measurement orifices

It is possible to use Flowcal Air with calibrated measurement orifices, like US EPA calibrators for high flows.

Introducing in Flowcal the manufacturer's calibration constants, it is possible to transform the old orifice into an electronic range measurement. The range will be shown at standard and actual conditions. It won't be necessary using the U tubes and calculate the measurement flow each time.

Flowcal Air HiDP can't be used with FlowCell cells.



Flowcal AIr HiDP with USEPA calibrator

10/10 - Technical specifications may change without previous warning

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Product Data Immission Line 2.210.02

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cell

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Technical specifications

Differential pressure

Range 0 - 2500 Pa (0 - 250 mmH₂O) better than 1% of measure ± 2 Pa Accuracy Resolution 0.1 Pa (0.001 mmH₂O) 30 000 Pa (3000 mmH₂O) Differential pressure max

(With HiDP sensor version)

0 - 10000 Pa (0 - 1000 mmH₂O) Range better than 1% F.S. Accuracy 1 Pa $(0.1 \text{ mmH}_2\text{O})$ Resolution

Absolute pressure (static and barometric)

0 - 105 kPa (1050 mBar) absolute Range better than 1% of measure ± 0.1 kPa Accuracy Resolution 0.01 kPa (0.1 mBar)

Temperature pressure inlet

Range -20 +80 °C 0.01 °C Resolution 1% of measure ± 0.2 °C Accuracy

General specifications

Working temperature Power supply

Battery autonomy Display Keypad **USB** Port Weight

-20 +40 °C 95% UR n°4 alkaline batterles type AA (or rechargeable) up to 90 hours

Graphic LCD 128x64 pixel Membrane with tactile effect USB 1.0; 1.1 e 2.0 550 g (including batteries) 115 x 230 x 45 mm

AB99-008-0000SP



Temp.

Abs. press.

Diff. press.

Connection to pressure and temperature sensors

Code for orders

FlowCal Air

Dimensions

supplied with:

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

FlowCal	Air	HiDP	

AB99-008-0001SP

4 rechargeable batteries type AA AC99-004-9931SR

Battery charger for rechargeable

batteries

AC99-004-9930SR

Optional temperature probe inlet

AB99-008-0006SP

Temperature probe

AB99-008-0020SP



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