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# Multifunction Calibrator

Flowcal X, 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 X** unique to test the accuracy of an instrument and to follow a quality system procedure.

#### MEASUREMENT TRACEABILITY

This is very important to follow a quality system procedure. **Flowcal X** 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necessary write paper reports: the reports can be easily downloaded via the Micro-USB port, eliminating the need for outdated serial ports or converters.

Data transfer is quick and straightforward by simply connecting the device to a computer. 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.

#### MAIN FEATURES

- > Reference calibrator to measure:
  - > Flow;
  - > Absolute Pressure;
  - > Differential Pressure;
  - > Temperature (optional);
- S Flow calibrator with Interchangeable measurement cells Flowcell Air, available in different ranges;
- > High precision pressure calibrator, with thermal drift compensation device;
- Creation of calibration report;
- > Creation of measurement log directly on the USB Key;
- > Powered by a rechargeable Li-Ion battery;
- Long battery life;
- > Available with ISO 17025 accredited laboratory certificate.







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#### FLOWRATE CELLS FLOWCAL X

The flow measurement cells are equipped with an internal microchip that stores all calibration and verification data.

Operation is extremely simple: just connect the cell to the instrument and power it on. The system automatically recognizes the cell, making it immediately ready for flow measurement.

Each cell integrates an ambient temperature sensor, shielded from solar radiation for reliable outdoor use.

The calibration data of the temperature sensor is also stored directly on the cell's chip, ensuring accurate and consistent measurements.

The cell connections are fully compatible with European LVS and **US EPA standards** for sampling heads.

Flow values can be displayed under both actual conditions and standard conditions.

Finally, Flowcal X is fully compatible with all legacy TCR Tecora® flow cells, ensuring continuity and long-term usability.



Cell Material Built-in Temp. Sensor accuracy Working Temperature Connection

Code Hosebarb for Hi-Flow cell

### 1% f.s.

Anodized aluminum Better than 1%  $\pm$ 0.2 °C -20 +60°C Male fitting diam. 31.65mm

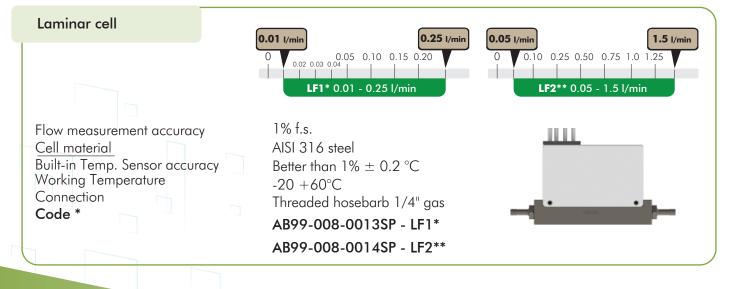
AB99-008-0010SP AB99-008-9910SP



#### MODELS AND FEATURES







## TRECORA POLLUTION CHECK











#### **TECHNICAL SPECIFICATIONS**

#### Differential Pressure

Range	0-6800 Pa (0-680 mmH2O)	
Accuracy	Better than 1% of measure ± 2 Pa	
Resolution	0.1 Pa (0.001 mmH2O)	
Differential pressure max	30.000 Pa (3000 mmH <sub>2</sub> O)	

TCR TECORA POLLUTION CHECK

#### Absolute Pressure (static and barometric)

Range	0 - 105 kPa
Accuracy	Better than 1% of measure ± 0.1 kPa
Resolution	0.1 kPa (0.1 mBar)

#### Temperature Probe Input (optional)

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

#### **General Specifications**

Working temperature	–20 + 40°C
Power supply	Rechargeable Li-Ion battery
Display	3.5" Touch-Screen
USB port	Micro-USB
Weight	400g
Dimensions	H. 175 x L. 90 x P. 50 mm

#### CODES FOR ORDERS

Flowcal X <u>The equipment includes:</u> → USB Flash disk 1 Gb → Carrying case → User's manual → Calibration certificate → Micro-USB cable	AB99-008-0000SP
Optional temp. probe inlet	AB99-008-0006SP
External temperature sensor with connection cable	AB99-008-0020SP
Protective case	AC99-004-9900SN









