

## A1-AIRCAL



- Medium flow cells (10 ÷ 50 l/min)
- High flow cells (100 ÷ 600 l/min)
- High precision sensors
- Flow measurement under actual and normalized conditions





## A1-AIRCAL

The digital flow calibrator, model A1-AIRCAL, checks the calibration of the principle parameters measured by the samplers (pressure, flow and temperature) using the Venturi principle effect, whereby "the pressure of a fluid current increases with decreasing speed".

Two different cells, for medium and high flow, can be connected to the instrument to verify both  $PM_{10}$  / $PM_{2,5}$  sequential samplers and high volume samplers for micro-pollutants and fine dust.

The measuring cell fittings are compatible with Mega System sampling heads while adapters are available for other brands

This unit is unique on the market, as it has digital sensors for differential pressure, static pressure and barometric pressure. It also hosts a highly precise integrated temperature sensor.

These features ensure increased accuracy and stability of the calibrator readings.

A1-AIRCAL allows traceability of all stored measurements, which may be downloaded via USB port directly onto a Pen Drive.

## MAIN FEATURES

- Independent measurement of differential pressure, static pressure and barometric pressure values.
- Measurement of measuring cell temperatures.
- Indication of flow under actual conditions and normalized conditions.



## TECHNICAL SPECIFICATIONS \_

☐ Interface, Data Archiving				
Display	Alphanumeric LDC (16x2)			
Polyester keyboard	✓			
nterface	USB (Pen Drive)			
■ Environmental Conditions				
Working Temperature Range	0 °C ÷ +45 °C − 95% UR			
□ Energy				
Power	Input 230 Vac – 50 Hz			
	Output 12 Vcc - 0,7 A			
Battery	Internal, rechargeable			
Battery charger	Built-in			
☐ Features				
Weight	550 g			
□ Supplied With				
Hard-shell protective carrying case, holds both cells				
Connection cable				
Technical Manual				
Test report				

□ Venturi Cells				
	Flow/Accuracy	Temperature/Accuracy		
MEDIUM flow	10 – 50 l/min / 1% f.s.	0÷+60°C / 1% ±0,2°C		
HIGH flow	100 - 600 I/min / 1% f.s.	0÷+60°C / 1% ±0,2°C		

☐ Pressure Sensors				
	Range	Resolution	Accuracy	
Differential	0 ÷ 200 mmH2O (0 ÷ 200 Pa)	0,02 mmH2O (0,1 Pa)	1%	
Static	-1000 ÷ 1000 mmH <sub>2</sub> O (-10.000 ÷ 10.000 Pa)	1 mmH2O (1 Pa)	1%	
Barometric	800 ÷ 1100 mbar	0,1 mBar	±2 mbar	