

SONIMIX 6000 C1

Permeation multigas calibrator

The multipoint multigas calibrator **SONIMIX 6000C1** is an instrument designed to calibrate manually or by remote control up to 5 gas monitors installed in an Air pollution monitoring station, such as SO₂, HC or BTX, CO, NO_x and O₃.

With the optional Ozone generator and GPT circuitry it is possible to verify the coherence of NO, NO₂ and O₃ analysers, and to determine the converter's efficiency of the NO_x monitors.

The interface allows to Configure the calibrator and to perform the manual operations of calibrations and GPT necessary after the maintenance process on the analysers.

Equipped with a binary gas mixer, based on high precision mass flow controllers and mechanical pressure regulators the **SONIMIX 6000C1** can generate accurate dilution to low ppb level.

Options :

- Permeation oven of different sizes and material (up to 3 permeation oven per device), with a specific oven able to contain up to 6 BTEX permeation tubes.
- Ozone generator and GPT circuits.

Main applications

- Air pollution monitoring

Main advantages

- ✓ Permeation
- ✓ Mass Flow Controller technology
- ✓ Remote control
- ✓ Ergonomic with LCD display





Specifications

Models: Sonimix 6000 C1	
General data	
Dilution range	1/1000 to 1/30
Dilution principle	MFC
Dilution gas	Mixtures of : SO ₂ in air (25 to 100ppm), NO in N ₂ (25 to 100ppm), CO in air (1000 to 10000ppm), HC or BTX in air
Diluted gas flow	0 to 35 Nml/min air
Dilution gas line flow accuracy	0,5% rel + 0,1 FS
Repeatability on flow	0,2% rel + 0,1 FS
Warm up time	< 45 min
Stabilization time	< 1 min
Operating temperature	5°C - 40°C
Dimensions	19" 3HE/84 TE , 500mm deep portable casing in option
Net weight	15 - 20 Kg
Gas inlet requirments	
Carrier gas	High grade zero air from pressurised cylinders or from Sonimix 3057
Air Flow	0 to 5000 Nml/min air
Pressure	3 +/- 0.3 bar (35+/- 5 psig)
Air Fittings	1/4" and 1/8" Swagelok
Gas outlet	
Flow:	0,5 to 5 l/min, other values upon request
Fittings	1/4" Swagelok
O3 section	
O3 concentration	50 - 500ppb, adjustable by software, remote & local (other values upon request)
Repeatability on flow	Better than +/- 2ppb (at 200ppb O3)
Permeation tubes section	
SO ₂ permeation tube	50 to 250 ppb (standard values)
NO ₂ permeation tube	100 to 500 ppb (standard values)
BTX permeation tube	10 to 50 ppb (standard values)
Temperature of permeation tube oven	45°C
Temp. Stability of permeation tube oven	0.05°C
Communication	
RS232	Standard
Electrical data	
Power supply voltage	230V/50-60Hz 115V/60Hz 100V/50-60Hz
Installed power (Max)	200W