



## Sonimix 6000 C2

### Multi-points Multigas calibrator with GPT, ozone & self re-generable zero air generator

#### Description

The multigas Sonimix 6000 C2 calibrator includes Mass Flow Controllers, GPT, ozone and self re-generable zero air generator, it is an instrument designed to calibrate manually or by remote control up to 6 monitors installed in an air pollution monitoring station, for parameters such as SO<sub>2</sub>, HC, BTX, CO, NO<sub>x</sub> and O<sub>3</sub>. Due to the included self re-generable zero air generator, the instrument needs neither maintenance nor expensive and cumbersome zero air pressurized cylinders.

#### Functioning principle:

The Sonimix 6000 C2 is equipped with an inlet for high concentration mixtures of diluted gases such as NO, NO<sub>2</sub>, SO<sub>2</sub>, CO, HC, BTX or mixtures of several compatible pollutants in the same cylinder.

A zero air generator composed of an internal compressor with self re-generable filters, removes following components: moisture, O<sub>3</sub>, NO<sub>x</sub>, SO<sub>2</sub>, HC, BTX and optionally CO and CH<sub>4</sub>.

The instrument is designed with a binary gas dilutor of two inlets (diluted gas and air), including 2 Mass Flow Controllers to generate the zero and other dilutions ratios going from 1/100 to 1/1000 (other values upon request).

The input pressures are monitored by two pressure switches.

The ozone generator is regulated by UV-light feedback and is compensated from the atmospheric pressure and ambient temperature variations. It includes alarm on the UV power drift as well as the circuits for the Gas Phase Titration (GPT).



- Multi functions & Convivial**
- Attractive price**
- Excellent quality**
- Accurate**
- No cylinders**

#### Applications



The Sonimix 6000 C2 is used for:

- calibration of air Pollution Monitoring (APM) Station
- reference for APM laboratories

**DASTEC S.R.L.**

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## Specifications

Carrier gas :	High grade zero air from internal zero air generator
Remaining pollutants :	SO <sub>2</sub> & O <sub>3</sub> < 1 ppb - NO & NO <sub>2</sub> < 2 ppb - HC <sub>Nm</sub> < 50 ppb HC <sub>m</sub> < 50 ppb - CO < 50 ppb - BTEX < 1 ppb
Remaining humidity level :	H <sub>2</sub> O < 100 ppm (-40°C DP)
Diluted gas :	Mixtures of SO <sub>2</sub> in Air - NO in N <sub>2</sub> - CO in Air - HC or BTX in Air Mixtures of several compatible pollutants in the same cylinder
Fixed dilution ratio generated :	From 1/100 to 1/1000 (50 to 500 ppb with a 50 ppm cylinder)
Precision of the dilution ratio :	+/- 1.5% relative
Global no –repeatability of dilution ratio :	< 0.5% relative
Stabilization time of the mixtures :	< 5 min
O <sub>3</sub> concentration:	Between 50 and 500 ppb, adjustable by software
Repeatability of O <sub>3</sub> concentration (during 30 days) :	Better than +/- 2.5 ppb (at 250 ppb O <sub>3</sub> )
Linearity and accuracy of the MFC :	+/- 1% FS
Repeatability of the MFC :	+/- 0.2% FS
Alimenting pressures :	3 +/- 0.3 bar (40 +/- 4 psig)
Total outflow of mixture :	About 3000 Nml/min, other values upon request
Command modes:	RS232 / Mode4, dry relay as option
Power consumption :	230V/50-60Hz – 117V/60Hz – 100V/60Hz
Gas connections:	By 1/4" and 1/8" Swagelok fittings
Dimensions :	19" 3HE/84TE, 500mm deep
Weight :	About 20Kg

## Options – Accessories – Spare parts

### Models:

6800 14 000	Sx 6000 C2 multipoint precision calibrator with MFC Module for 4 gases inlets (3 additional inlets) included
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### Options:

6800 12 030	Ozone generator from 50 to 500 ppb & circuit for the GPT
6800 08 015	Integrated self re-generable zero air generator
6800 08 017	Catalyzer oven for CO & CH <sub>4</sub>
6800 10 004	Cold filter for CO
6800 12 040	Remote interface by dry relays
6800 11 001	Remote interface by serial RS232
6809 00 300	PC Software program to drive the Sx 3012/3022
6800 10 000	Portable casing
6700 13 867	Voltage 230V / 50/60 Hz
6700 13 868	Voltage 115V / 60 Hz
6700 13 869	Voltage 100V / 60 Hz ( <i>not available with Catalysis oven</i> )

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