SONIMIX 6000 C2

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

The multigas **Sonimix 6000 C2** calibrator is designed to calibrate manually or by remote control up to 6 monitors installed in an air pollution monitoring station, for parameters such as SO2, HC, BTX, CO, NOx and O3.

The Sonimix 6000 C2 includes Mass Flow Controllers, GPT, ozone and self re-generable zero air generator and is equipped with

- an inlet for high concentration mixtures of diluted gases such as NO, NO2, SO2, 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, O3, NOx, SO2, HC, BTX and optionally CO and CH4.
- 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).

Main applications

■ Air pollution monitoring

Main advantages

- ✓ Accuracy (0,6% rel.)
- No maintenance nor pressurised air cylinder with its included self re-generable zero air generator
- ✓ Sonic nozzle technology
- ✔ Remote control
- Ergonomic with LCD display





R Evolution in Gas Calibration Systems



Specifications

| Models: Sonimix 6000C2 | |
|-----------------------------------|---|
| General data | |
| Dilution range | From 1/100 to 1/1000 (50 to 500 ppb with a 50 ppm cylinder) |
| Dilution principle | MFC |
| Dilution gas | Mixtures of SO2 in Air - NO in N2 - CO in Air - HC or BTX in Air Mixtures of several compatible pollutants in the same cylinder |
| Diluted gas flow | 0 to 35 Nml/min air |
| Dilution gas line flow accuracy | +/- 1.5% relative |
| Repeatability on flow | < 0.5% relative |
| Stabilization time | < 5 min |
| Internal 0 air quality | SO2 & O3 < 1 ppb - NO & NO2< 2 ppb - HCnm< 50 ppb HCm< 50 ppb - CO< 50 ppb - BTEX< 1 ppb |
| Remaining humidity level | H2O< 100 ppm (-40°C DP) |
| Dimensions | 19" 3HE/84 TE , 500mm deep |
| | portable casing in option |
| Net weight | 20 Kg |
| Gas inlet requirments | |
| Carrier gas | High grade zero air from internal zero air generator |
| Flow | 0 to 3500 Nml/min air |
| Pressure | 3 +/- 0.3 bar (40 +/- 4 psig) |
| Fittings | 1/4" and 1/8" Swagelok |
| Gas outlet requirments | About 2000 Neel/rain othorough companyon |
| Flow: | About 3000 Nml/min, other values upon request |
| Fittings | 1/4" and 1/8" Swagelok |
| O3 section | 25 500mh adjustable by saftware |
| O3 concentration | 25 - 500ppb, adjustable by software Better than +/- 2,5ppb (at 250ppb O3) |
| Repeatability on flow MFC section | Better than +/- 2,5ppb (at 250ppb 03) |
| Linearity and accuracy of the MFC | 0.5 % (rel.) + 0,1 FS |
| Repeatability of the MFC | 0.5 % (rel.) + 0,1 FS 0.2 % (rel.) + 0,1 FS |
| Communication | 0.2 /0 (10.1) 1 0,2 1 3 |
| RS232 | Standard |
| Electrical data | |
| | 230V/50-60Hz |
| Power supply voltage | 115V/60Hz |
| | 100V/50-60Hz |
| Installed power (Max) | 200W |
| staea perior (max) | 200 |

