

# SONIMIX 3012/3022

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

The multigas calibrator with GPT, ozone and self re-generable zero air generator, **Sonimix 3012/3022**, is an instrument designed to calibrate manually or by remote control up to 6 monitors installed in an air pollution monitoring station, such as SO<sub>2</sub>, HC, BTX, CO, NO<sub>x</sub> and O<sub>3</sub>.

The **Sonimix 3012/3022** 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 that removes moisture, O<sub>3</sub>, NO<sub>x</sub>, SO<sub>2</sub>, HC, BTX and optionally CO and CH<sub>4</sub>.

- a binary gas dilutor with two inlets (diluted gas and air), based on sonic nozzles (ISO 6145-6 standard)

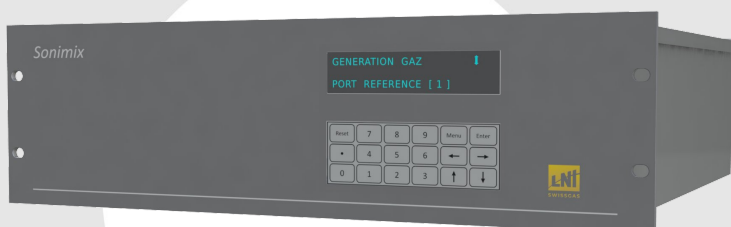
The ozone generator is regulated by UV-light feedback and compensated from the atmospheric pressure and ambient temperature variations, with alarm on the drift of UV-light as well as the circuits for the GPT.

### Main applications

- Air pollution monitoring

### Main advantages

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





## Specifications

Models: Sonimix 3012/3022	Sx 3012/3022	Sx 3012/3022 010
General data		
Dilution point	3	10
Dilution range	1/166, 1/250, 1/500 (100, 200, 300 ppb with 50 ppm at inlet)	1/200 to 1/2000 or 1/100 to 1/1000
Dilution principle	Sonic nozzle	
Dilution gas line flow accuracy	0,6% relative	
Repeatability on flow	Better than 0.3% relative	
Warm up time	< 45 min	
Stabilization time	3 min	
Operating temperature	15°C - 40°C	
Dimensions	19" 3HE/84 TE , 500mm deep portable casing in option	
Net weight	20 Kg	
Gas inlet requirments		
Zero Air	Requires high grade zero air from internal zero air generator or from cylinder DP < -40°C	
Carrier gas	NO, NO2, O3, SO2 < 1ppb BTEX < 1 ppb CH4 < 50 ppb & CO HCnm < 50 ppb if catalysis oven is installed	
Dilution gas	Requires High concentrated premixtures SO2 in Air - NO in N2 - CO in Air - HC or BTX in Air	
Pressure	3 ± 0.3 bar rel	
Fittings	1/4" and 1/8" Swagelok	
Gas outlet requirments		
Flow	About 3000 Nml/min, other values upon request	
Fittings	1/4" and 1/8" Swagelok	
O3 section		
O3 concentration	25 - 500 ppb, adjustable by software	
Accuracy	Better than +/- 2 ppb from 25 to 200 ppb	
Repeatability on flow	Better than +/- 2.5 ppb (at 250 ppb O3)	
Communication		
Key board and VFD display	Standard	
RS232	Standard	
Electrical data		
Power supply voltage	230V/50-60Hz 115V/60Hz 100V/50-60Hz	
Installed power (Max)	65 - 150W	