SONIMIX 3022-2000
Calibrador Multigás

SONIMIX 3022-2000 THREE POINTS MULTIGAS CALIBRATOR WITH GPT, OZONE AND SELF REGENERABLE ZERO AIR GENERATORS

The **MULTIGAS CALIBRATOR** with **GPT, OZONE** and **SELF REGENERABLE ZERO AIR** generators, model **LNI SONIMIX 3022-2000** is an instrument designed to calibrate manually or by remote control up to 6 monitors installed in an Air pollution monitoring station, such as SO2, HC, BTX, CO, NOx and O3. Due to the included Self Regenerable Zero Air Generator, the instrument needs neither maintenance nor expensive and cumbersome ZERO AIR pressurised cylinders.

The **SONIMIX 3022-2000** is equipped with a serial interface (RS232 or RS485) or an interface designed to be directly compatible with the Data Acquisition stations with the ISO7168/ADEME protocol or with the analysers. That feature allows in Remote mode, to receive and to interpret for each gas, the instructions MEASURE, ZERO and CALIBRATION; the communication protocol are MODE4 or JBUS. In Local mode, the interface allows to Configure the calibrator and to perform the manual operations of calibrations regularly or after the maintenance process on the monitors.

The **SONIMIX 3022-2000** is mainly composed of **5** parts :
** 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. (SONIMIX 3022-2000OP1 : 4-inlets port)
** a **Zero Air generator composed of an internal compressor** with self regenerable filters to remove moisture, O3, NOx, SO2, HC, BTX and optionally CO and CH4 (SONIMIX 3022-2000OP2).
** a binary gas dilutor with two inlets (diluted gas and Air), based on sonic nozzles and mechanical pressure regulators, with the **Zero and three fixed dilution points**. The input pressures are monitored by two pressure switches.
** an **Ozone generator** regulated by UV-light feedback and compensated from the atmospheric pressure and ambient temperature variations, with alarm on the drift of UV-light intensity, as well as the circuits for the GPT. SONIMIX 3022-2000OP3
** **an interface, based on the 80537** micro-controller, able to receive and execute the instructions, the power supplies for the valves and the UV-lamp; the keyboard and the 2 X 20 characters fluorescent display.

TECHNICAL DATA

Carrier gas	: high grade ZERO Air from the internal ZERO AIR GENERATOR.
Diluted gas	: mixtures of SO2 in AIR (25 to 100ppm)
	NO in N2 (25 to 100ppm)
	CO in AIR (1000 to 10000ppm)
	HC or BTX in AIR
	mixtures of several compatible pollutants in the same cylinder
O3 concentration	: between 50 and 500 ppb, adjustable by software
Repeatability of the O3 concentration	: better than +/- 2.5 ppb (at 250 ppb O3)
Fixed dilution ratio realised (standard)	: (1/166, 1/250, 1/500 (100, 200, 300 ppb with 50 ppm at inlet)
Fixed dilution ratio realised (alternative)	: (1/125, 1/166, 1/400 (150, 300, 400 ppb with 50 ppm at inlet)
Precision of the dilution ratio	: +/-0.6% relative
Global non-repeatability of the dilution ratio	:< 0.3% relative
Stabilisation time of the mixtures	: < 3 minute
Total outflow of mixture	: about 3000 Nml/min, other values upon request
Alimenting pressures	: 2.5 +/- 0.3 bar (35 +/- 4 psig)
Remote command	: RS232 or RS485, Mode4 or JBUS, dry relay as option
Power consumption	: 115V or 230V / 130W
Gas connections	: by 1/4″ and 1/8″ Swagelok fittings
Dimensions and weight	: 19″ 3HE/84TE, 500mm deep. About 20 Kg.

OPTIONS

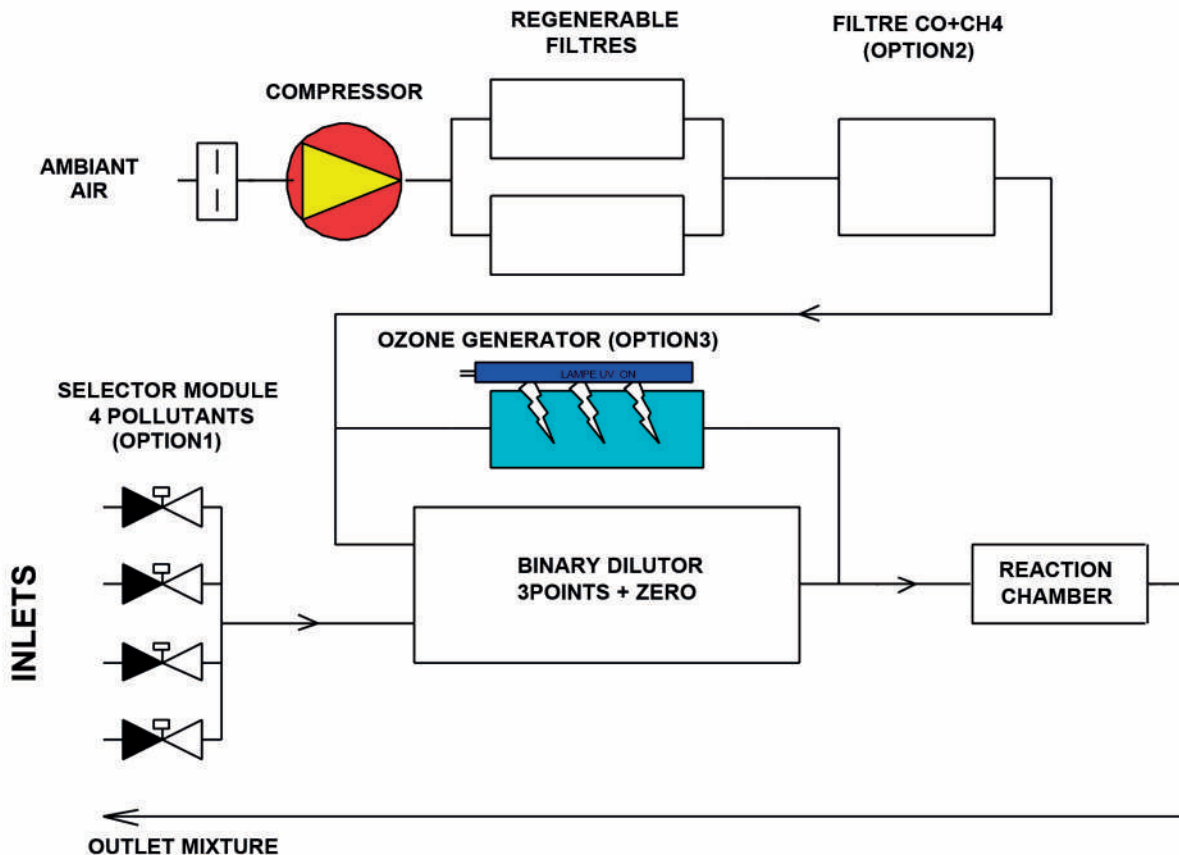**SONIMIX 3022-2000OP1 :** 4-inlets port
SONIMIX 3022-2000OP2 : Scrubber for CO and CH4
SONIMIX 3022-2000OP3 : Ozone Generator with GPT circuits
SONIMIX 3022-2000OP4 : Remote command by dry relays
SONIMIX 3022-2000OP5 : Alternative dilution ratio

SCHEMA

Caso queira adaptar este produto a suas necessidades usando um sistema de condicionamento, uma automação ou formando um produto, contate:

COMERCIAL@ENGEZER.COM.BR
para mais informações ou preços

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