

Datasheet 20140905

Sonimix 3030

Modular calibration system

Description

The SONIMIX 3030 is a calibration system, specially developed for simple applications.

The Sonimix 3030 is available in 2 models :

- Dilution : 1 fixed dilution ratio
- Permeation : 1 fixed concentration

The SONIMIX 3030 has a RS 232 remote command, a key board and a 2x20 character VFD screen.

All used components (Sonic Nozzles - ISO 6145-6 technology, pressure regulators and permeation oven) have been developed by LN INDUSTRIES SA.



- ✓ **High Precision and Stability**
- ✓ **Quick stabilization time
(by suppression of the dead volumes)**
- ✓ **Easy link to national standards**
- ✓ **Simple device**

Applications



The **SONIMIX 3030-Dil** can be used to dilute premixed cylinder gases such as NO, SO₂, HC, CO, in one concentration.

The use of high concentrated gas cylinders (ppm) instead of low concentrated (ppb) give the user the best stability of the gas source, as well as lower functioning costs.

The micro processor automatically calculate the final concentration in function of the premixed gases and the set dilution point.

The **SONIMIX 3030-Perm** can be used to generate different gases (SO₂, NO₂, NH₃, HCl and BTEX) by permeation (in one concentration).

The use of permeation oven is very usefull for some components that are not available in cylinders.

Specifications

	Sonimix 3030-Dil	Sonimix 3030-Perm
Inlet diluted gases	Dry gases, low corrosive pure or premixed such as CO, SO ₂ , NO, CL ₂ , H ₂ S,, ...	
Air	Dry air coming from gas cylinder or sonimix zero air generator	Dry air coming from gas cylinder or sonimix zero air generator
Concentration / Dilutions	1 point to be selected 1/1000 to 98%	From ppb to max 10ppm depending of the permeation tube
Concentration range		
Maximum generated flow	2500 Nml/min (equivalent N ₂)	5000Nml/mi of mixture (equivalent N ₂)
Precision of the concentration	Better than 0.6% relative	Depending of the perm. Tube (typically 5%)
Repeatability	Better than 0.3% relative	1%
Stabilisation time of the mixture	< 1 minute	5 min (if device is on or 24h from start up)
Inlet pressure	From 2.2 to 3.5 bar relative	
Maximal outlet pressure	atmosphere	
Alarms	Inlet pressure	Inlet pressure, oven temperature
Command	Electrical local command	
- local with screen + key board	Screen VFD 2x20 characters, key board 18 touches	
- remote command	RS 232, 1200 to 9600 baud, other parameters 100% adjustable	
Electrical consumption	25W	100W
Voltage settings	230V/50-60 Hz - 115V/50-60Hz	
Leak test	316L < 10 ⁻⁷ mbar l/s, checked by He detector	
Casing	19", 3U, 500mm	

Options – Accessories – Spare parts

Sonimix 3030-DIL

Models:

6800 60 001	Sx3030-Dil1Pt, 1 point calibrator system with 2 sonic nozzles (ISO 6145-6 technology)
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Options:

6800 60 010	Internal CAL/SAMPLE 3/ 2 ways valve
6800 60 011	RS-232 remote protocol
6800 10 000	Portable casing
6800 60 012	Opt. Back Pressure Regulator

Sonimix 3030-Perm

Models:

6800 60 002	Sx 3030-Perm1T1PT, 1 pt calibrator by permeation with sonic nozzles oven for 1 tube wafer Teflon
6800 60 003	Sx 3030-Perm1T1PT, 1 pt calibrator by permeation with sonic nozzles oven for 1 tube tubular teflon
6800 60 004	Sx3030-Perm6T1PT, 1 pt calibrator by permeation with sonix nozzles oven for 6 tubes stainless steel

Options:

6800 60 010	Internal CAL/SAMPLE 3/ 2 ways valve
6800 60 011	RS-232 remote protocol
6800 10 000	Portable casing



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