## SONIMIX 2106

# Best in class Gas Mixer with the unique sonic nozzle technology

The **Sonimix 2106** is a gas mixer mainly used to calibrate and linearize gas monitors and to generate specific gas mixtures .

The **Sonimix 2106** is based on the principle of gas flow through sonic nozzles and is built according the ISO 6145/6 standard. The sonic nozzle principle makes it the most accurate and stable device on the market. It generates binary mixtures from 0 to 100% in fixed steps in a pure mechanical process without electronic regulation and without any influence from ambient pressure or temperature.

The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

Optional Auto Diagnostic functions for quick check of the instrument performances (patented) is available. Optional Nox converter tester.

Proven metrological performances – Optional ISO 17025 calibration reports will be delivered from our accredited laboratory. In this way the device can be easily linked with National Standards (NIST, METAS, UKA, etc)

#### Main applications

- Quality control of gas monitors in the laboratory
- Gas analysers and sensors production
- To generate accurate gas standards and mixtures for R&D purpose
- Automotive industry for engine test benches

#### Main advantages

- Fulfilment of ISO 14481 standard CEM (QUAL 1 to QUAL 3)
- ✓ ISO 6145/6 standards
- ✓ High accuracy (0.5% rel.) and stability (0,2% rel.)
- ✓ Constant gas flow and pressure
- ✓ No break-in times
- ✓ Up to 1024 programmable calibration points.
- Low maintenance
- Cost savings Reduce gas cylinders costs
- Corrosive gases can be used with the optional SilcoNert © coating
- Safe Smart purge routine
- Remote control
- Ergonomic with LCD display





### Specifications

Models: Sonimix 2106		2106-10	2106-16	2106-64	2106-128	2106-256	2106-1024
General data							
Di	lution points	10	16	64	128	256	1024
Dilution principle		Sonic nozzles (according ISO 6145-6) and high precision pressure regulators					
Dilution gas line flow accuracy		< 0.25 % of set point					
Source gas line flow accuracy		< 0.25 %					
Repeatability on flow		< 0.1 %					
Accuracy on concentration (rel)		< 0.5 % on the highest dilution ratio					
Repeatability on co	Better than 0.14% relative						
Re	< 15 sec						
Au	Diagnostic of pressure regulator, valve opening, nozzle functioning, drift						
Facto	By laminar flow with uncertainty < 0.2% of reading						
W	none						
Operating	15°C - 40°C						
	19" 3HE/84 TE , 500mm deep						
	portable casing in option						
	15 - 20 Кд						
Gas inlet requirment	s						
	Requires dry Air, Nitrogen or other gas, 2 ports						
	-40°C						
	compatible with corrosive gases up to 10% (if option installed), up to 12 ports						
Pressure		3 ± 0.3 bar rel					
Fittings		3 x Swagelok 1/4" (Air, Nitrogen, Span gas), optional up to 3x 4Swagelok 1/4" per instrument					
Gas outlet requirments							
El aver		2.5 ± 0.25 L/min (other flow rate upon request)					
	FIOW:	adjustable by by-pass valve in front of the instrument					
	up to 1 bar rel (other pressure upon request)						
	Fittings		4 x Swa	gelok 1/4" (N	lixture, Waste	e, Purge)	
Communication							
	Standard						
Eth	Standard						
USB		Standard					
	Optional						
Electrical data							
	230V/50-60Hz						
Power su	115V/60Hz						
	100V/50-60Hz						
Installed	150W						
NOx converter tester	r (option)						
NO2 range		15 to 50 ppm / 30 to 100 ppm / 300 to 1000 ppm, all at 2.2 NL/min					
Stabilization time		Less than 1 min (once the device has warmed up)					
	Inlet fittings	2 x Swagelok (NO, air) 1/4"					
	Outlet fittings		2 x	Swagelok (ou	itlet, purge) 1	/4"	

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