



Menu

Home (<https://www.lni-swissgas.eu/en/>) » Products (<https://www.lni-swissgas.eu/en/products/>) » Premium Gas Calibration Systems (<https://www.lni-swissgas.eu/en/products/gas-calibration-systems/>) » Gas calibrators (<https://www.lni-swissgas.eu/en/products/gas-calibration-systems/gas-calibrators/>) » SONIMIX 4001

SONIMIX 4001

Ozone generator – Primary transfer standard

Intro Features and applications Technical specifications

The Sonimix 4001 is a stand alone ozone primary transfer standard able to generate ozone together with dry or wet air (optional) allowing to calibrate the ozone monitors in several points. It generates an outflow of 3 NL/min air containing 10 to 1000 ppb O₃, with stability and reproducibility of the concentration better than 1% relative. The extended range model generates 10 ppb to 10 ppm at 3 L/min and 10 ppm to 35 ppm at 0.9 L/min. The Sonimix 4001 is using pressure regulator and sonic nozzles and an ozone generator including thermostatisation and regulation by UV light photometer measurement with atmospheric pressure and temperature corrections (US EPA method of UV absorption by ozone, Beer-Lambert law). The ozone analyser is built with 1 reference UV light detectors that measure in alternance the UV intensity without any ozone and then the same UV light but through the generated ozone. With these 2 values, the processor calculates the amount of ozone generated.



> [Download technical sheets](#)

Product features

- > Stable and accurate > 1% (rel.)
- > Calibration with dry & wet air
- > Included novel LED photodetector
- > Ergonomic with LCD display

Main applications

- > Air pollution monitoring
- > Laboratory (ozone transfer)

Technical specifications

Models:	6800 17 000	6800 17 001
Sonimix 4001	standard range	extended range
General data		
Range	From 10 to 1000 ppb in 1 ppb steps @ 3 L/min	From 10ppb to 10 ppm @ 3 L/min + 10ppm to 35 ppm @ 0.9 L/min
Dilution principle	Sonic nozzles and high precision pressure regulators	
Dilution air	Dry air from internal zero air (option) or external dry air source	
Generated gas flow	3000 ml/min for range 1	900ml/min for range 2
Accuracy	10 ppb to 100 ppb : +/- 2 ppb >100 ppb : 1.5% relative	



Ozone Repeatability	Better than 1% relative
Warm up time	< 45 min
Stabilization time	< 15 min
O3 regulation	Measure of the UV light absorption of the generated ozone by UV reference photometer. (US EPA method and Beer Lambert law). Including atmospheric pressure and room temperature corrections
Dimensions	19cmx36cm, 50cm deep
Net weight	15 Kg
UV Section	
UV lamp life time	About 10'000 hours (with a mean concentration of 1 ppm)
Zero Air section	
Life Time	Annual preventive maintenance
Quality	O3, NO and NO2 < 1 ppb – H2O < -40°C dew point
Communication	
Outlet Port	Teflon 1/4" Swagelok fitting
Electrical data	
Power supply voltage	230V/50-60Hz – 117V/60Hz – 100V/60Hz

Information request

Need more information about this product?

Please contact us at info@lni-swissgas.eu (mailto:info@lni-swissgas.eu) or fill the form.

Do you need technical support?

[Ask for assistance \(https://www.lni-swissgas.eu/en/support/?pn=SONIMIX%204001\)](https://www.lni-swissgas.eu/en/support/?pn=SONIMIX%204001)

<input type="text" value="Name"/>	<input type="text" value="Lastname"/>
<input type="text" value="Email"/>	<input type="text" value="Phone"/>
<input type="text" value="Select your Country"/>	
<input type="text" value="Request"/>	

Are you a customer? No Yes

SEND REQUEST →

I give my consent to the processing of my personal data pursuant to Reg. UE 2016/679 and Italian D.Lgs 196/2003, in order to have more info related to products/services - [Privacy Policy \(https://www.iubenda.com/privacy-policy/15284221\)](https://www.iubenda.com/privacy-policy/15284221)

Subscribe to our newsletter

Register and receive updates on news, offers and promotions of LNI Swissgas.

<input type="text" value="Name"/>	<input type="text" value="Company"/>
<input type="text" value="Country"/>	<input type="text" value="Email"/>

LNI Swissgas

LNI Swissgas SA (Switzerland)

Route des Fayards 243, 1290 Versoix
Tel. +41 22 979 37 24 (tel:+41229793724) | Mail:
info@lni-swissgas.com (<mailto:info@lni-swissgas.com>)

LNI Swissgas Srl (Italy)

Registered Office

Via Sassoferato, 1 – 20135 Milano

Operational headquarters

Via E.Mattei, 9 – 35038 Torreglia (PD)
Tel. +39 02 89954237 (tel:+390289954237) | Mail:
info@lni-swissgas.eu (<mailto:info@lni-swissgas.eu>)

LNI Swissgas (France)

7 rue le Bouvier, 92340 Bourg-La-Reine
Tel. +33 1 86 26 10 28 (tel:+33186261028) | Mail:
info@lni-swissgas.eu (<mailto:info@lni-swissgas.eu>)

LNI Swissgas GmbH (Germany)

Felix-Wankel-Str. 27 – 59174 Kamen
Tel. +49 2307 26161 45 (tel:+4923072616145) | Mail:
info@lni-swissgas.de (<mailto:info@lni-swissgas.de>)

LNI Swissgas EE (Poland)

Warsaw
Tel. +48 607550700 (tel:+48607550700) | Mail:
biuro@lni-swissgas.eu (<mailto:biuro@lni-swissgas.eu>)

LNI Swissgas Pte Ltd (SEA)

2 Gambas Crescent #06-19 Nordcom II
Singapore 757044
Tel. +65 6258 1275 (tel:+6562581275) | Mail:
sales@lni-swissgas.sg (<mailto:sales@lni-swissgas.sg>)

LNI Swissgas (China)

Room 1405, Building 1, No.248 Guanghua Road,
Minhang District, Shanghai
Hotline +86 4001-520-260 (tel:+864001520260)

LNI Swissgas LATAM (México)

Blvd. Nuevo Hidalgo #1123, Local 212
Fraccionamiento Los Cedros, Hidalgo
Tel: +52 1 771 240 9268 (tel:+5217712409268)

LNI Swissgas US LLC (USA)

West Hartford, CT
Mail: info@LNISwissgasus.com
(<mailto:info@LNISwissgasus.com>)

LNI Swissgas (India)

Mangalam Business Centre, Acropolis Mall,
No.1858/1 Rajdanga Main Road, Sector 1,
East Kolkata Township, Kolkata West Bengal
Tel. +91 9748738392 +91 6290977060
Mail: india@lni-swissgas.eu (<mailto:india@lni-swissgas.eu>)

Product range

- > Premium Lab Gas Generators (<https://www.lni-swissgas.eu/en/products/lab-gas-generators/>)
- > Premium Gas Calibration Systems (<https://www.lni-swissgas.eu/en/products/gas-calibration-systems/>)
- > Premium Compressors (<https://www.lni-swissgas.eu/en/products/compressors/>)
- > Premium hydrogen sensors (<https://www.lni-swissgas.eu/en/products/hydrogen-sensors/>)
- > Premium laboratory benches and noise reduction enclosures (<https://www.lni-swissgas.eu/en/products/lab-benches-noise-reduction-enclosures/>)

Certifications



([https://www.lni-swissgas.eu/en/wp-](https://www.lni-swissgas.eu/en/wp-content/uploads/sites/2/2022/04/Accreditation-ISO-17025_2017.pdf)

[content/uploads/sites/2/2022/04/Accreditation-ISO-17025_2017.pdf](https://www.lni-swissgas.eu/en/wp-content/uploads/sites/2/2022/04/Accreditation-ISO-17025_2017.pdf))



([https://www.lni-](https://www.lni-swissgas.eu/en/wp-content/uploads/sites/2/2021/10/321849_iq_32748.pdf)

[swissgas.eu/en/wp-content/uploads/sites/2/2021/10/321849_iq_32748.pdf](https://www.lni-swissgas.eu/en/wp-content/uploads/sites/2/2021/10/321849_iq_32748.pdf))



([https://www.lni-swissgas.eu/en/wp-](https://www.lni-swissgas.eu/en/wp-content/uploads/sites/2/2021/10/20211012110004575.pdf)

[content/uploads/sites/2/2021/10/20211012110004575.pdf](https://www.lni-swissgas.eu/en/wp-content/uploads/sites/2/2021/10/20211012110004575.pdf))