

# NeOse™ Pro

The first portable and universal odor detection device.

## BENEFITS

- Lightweight, connected sensor mimics the human nose
- Minimal sample preparation required
- Real-time analysis to compare odors
- Dedicated, intuitive software for data visualization and deeper analysis
- Appropriate for food, cosmetics, and automotive industries to access digital olfactive fingerprints

## TYPICAL USES

- Formula development in R&D
- Quality control and assurance for batch-to-batch consistency
- Raw material qualification for production

## FEATURES

- Array of 67 proprietary biosensors that react within seconds and odor desorption is extremely fast
- Customized software for instrument control and data visualization with interface for standalone operation or PC operation.
- Extensive odor database functionality provides comparative metrology and advanced analytic capabilities



<b>BIOSENSORS</b>	67 biosensors, evolutive with O-Cell generations	
<b>MEASUREMENT PRINCIPLE</b>	VOCs detection in gas phases (headspace)	
<b>SIZE</b>	245 mm x 98 mm x 48 mm	
<b>WEIGHT</b>	720 grams	
<b>WARM-UP TIME</b>	30 minutes*	
<b>DISTANCE FROM ODOR SOURCE</b>	2 to 5 cm	
<b>BATTERY</b>	<b>Material</b>	Li-ion
	<b>Autonomy</b>	6 - 8 hours
<b>POWER CONSUMPTION</b>	5 W (10 W while charging)	
<b>TIME TO FULL CHARGE</b>	12 hours	
<b>USB CHARGER</b>	5 V / 2 A (charging + measure) 5 V / 1 A (Charge only)	

\* Refer to User Manual for details.

<b>OPERATING CONDITIONS</b>	Pressure	Atmospheric pressure
	Temperature	0 - 50°C
	Relative Humidity	80% or less (at 35°C) with no condensation
<b>PROTECTION NORM</b>	IP32	
<b>VOC DETECTION SYSTEM</b>	Chemical affinity detection through optical system	
<b>MEASURED CONCENTRATION RANGE</b>	1 to 1000 ppm (depending on compound)	
	<b>AMMONIA</b>	< 1 ppm
	<b>HYDROGEN SULFIDE</b>	< 100 ppb
<b>RESPONSE TIME</b>	10 seconds	
<b>ACQUISITION FREQUENCY</b>	2 Hz, up to 10 Hz	
<b>AVERAGE TIME BETWEEN MEASUREMENTS</b>	5 minutes	
<b>FLOWRATE</b>	10 to 100 mL/min	
<b>CALIBRATIONS</b>	White calibration	Background referring to air
	Calibration frequency	Upon warm-up, then periodical on demand
<b>SYSTEM VALIDATION</b>	3 reference samples*	
<b>IT REQUIREMENTS</b>	Minimum system requirements	USB 2.0, Windows 10 64 bits build 1709 or higher
	Cable connection	USB 2.0 (micro-USB)
	Bluetooth	BLE 4.0
<b>LIFETIME</b>	O-Cell	1000 measurements or 3 months*
	Reference samples	180 measurements or 3 months*

\* Refer to User Manual for details.

Learn more at [www.aryballe-technologies.com](http://www.aryballe-technologies.com)



**Headquarters**  
7 rue des Arts et Métiers  
38000 Grenoble  
France

**Americas**  
101 Crawfords Corner Rd  
Suite 4-101R  
Holmdel, NY 07733 USA

© 2019 Aryballe Technologies. All rights reserved. Aryballe, NeOse, and the Aryballe logo are trademarks of Aryballe Technologies and/or its affiliates. All other trademarks are the property of their respective holders.