

Product Specification of:

## NO - Automotive Sensor / Type A-21



### :: KEY FEATURE ::

**Amperometric gas sensor designed for use in automotive exhaust gas analyzers.**

*All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa and gas flow 1 NL/min.*

<b>Operating Principle:</b>	3-electrode potentiostatic driven cell with potentiostat		
<b>Electrical Connector:</b>	4-pin Molex®		
<b>Mechanical Mating Connector:</b>	fits for M16x1 DIN 13 or 5/8-24 UNEF		
<b>Measurement Range:</b>	1 to 2000 ppm		
<b>Maximum Overload:</b>	up to 5000 ppm		
<b>Sensor Lifetime:</b>	2 years, depending on application		
<b>Sensitivity:</b>	40 to 75 nA/ppm		
<b>Response Time <math>t_{90}</math>:</b>	< 5 s		
<b>Drift:</b>	< 10 % signal/year		
<b>Linearity:</b>	< 5 %		
<b>Zero Offset Current:</b>	< ± 1ppm		
<b>Operating Temperature:</b>	0 to 50 °C		
<b>Temperature Compensation:</b>	signal not temperature compensated		
<b>Pressure Range:</b>	750 to 1750 hPa		
<b>Humidity Range:</b>	30 to 90 % rH		
<b>Interferences:</b>	Lambda-Mix	[high, A1]:	< 0.1 % of NO response
	NO <sub>2</sub>	[50 ppm]:	< 7 % of NO response
	SO <sub>2</sub>	[1020 ppm]:	< 0.2 % of NO response
	H <sub>2</sub> S	[504 ppm]:	< 10 % of NO response
	CO	[249 ppm]:	< 0.1 % of NO response
<b>Weight:</b>	approximately 24 g		
<b>Material in Contact with Media:</b>	PP, PPS, PTFE, stainless steel		



### :: STORAGE CONDITIONS IN UNOPENED ORIGINAL PACKAGE ::

<b>Temperature Range:</b>	recommended: 5 to 30 °C
	maximum: -20 to 50 °C
<b>Ambient Pressure:</b>	750 to 1750 hPa
<b>Humidity:</b>	10 to 98 % RH (non-condensing)
<b>Shelf Life:</b>	< 3 months recommended

### :: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour	Remarks
NO - Sensor A-21	44 00 08	grey	potentiostat integrated, connector cable
NO - Sensor A-22	44 00 05	grey	potentiostat integrated, different pin-configuration
NO - Sensor A-22D	44 04 05	grey	potentiostat integrated, different pin-configuration digital signal
NO - Sensor A-23	44 00 16	grey	potentiostat integrated

*This data sheet is subject to change without prior notice. [A-21-Rev02\_2022\_0221]*