

:: 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.

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



:: STORAGE CONDITIONS IN UNOPENED ORIGINAL PACKAGE ::

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

:: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour	Other Specifics
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-23-Rev02_2022_0221]