

Product Specification of:

NO₂ - Industrial Sensor / Type I-51



.: KEY FEATURE .:

Amperometric gas sensor with potentiostat, low interferences to other gases and a fast response time.

All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa.

Operating Principle:	3-electrode potentiostatic cell with potentiostat	
Electrical Connector:	4-pin Molex®	
Sensor Lifetime:	~ 2 years	
Gas Connector:	M16 x 1 thread	
Measurement Range:	0 to 500 ppm	
Maximum Overload:	up to 2,000 ppm	
Sensitivity:	- 150 to - 250 nA/ppm	
Response Time t_{90}:	< 15 s	
Drift:	< 10 % signal/year	
Zero Offset Current:	< ± 1 ppm	
Operating Temperature:	0 to 50 °C	
Pressure Range:	750 to 1250 hPa	
Humidity Range:	30 to 98 % RH	
Interferences:	CO ₂ : none	SO ₂ : < 5 nA/ppm
	CO: < 1 nA/ppm	H ₂ S: < 30 nA/ppm
	H ₂ : < 1 nA/ppm	NO: < 2 nA/ppm
	O ₂ : none	
Weight:	approximately 24 g	
Material in Contact with Media:	PP, PPS, PTFE, stainless steel	



.: STORAGE CONDITIONS .:

Temperature Range:	recommended: 5 to 30 °C
	maximum: -20 to 50 °C
Ambient Pressure:	600 to 1250 hPa
Humidity:	10 to 98 % RH
Shelf Life:	< 3 months recommended

.: RELATED PRODUCTS .:

Product	Part-No.	Housing Colour
NO ₂ - Sensor I-51	48 00 33	grey

This data sheet is subject to change without prior notice. [I-51-Rev_022012.doc]

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