

Product Specification of:

SO₂ - Industrial Sensor / Type I-61F



:: KEY FEATURE ::

Amperometric gas sensor with potentiostat, specially designed for stack-gas measurements with filter.

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 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 500 ppm		
Maximum Overload:	up to 1,000 ppm		
Sensor Lifetime:	2 years, depending on application		
Sensitivity:	170 to 350 nA/ppm		
Response Time t₉₀:	< 25 s		
Drift:	< 10 % signal/year		
Linearity:	< 10%		
Zero Offset Current:	< ± 1 ppm		
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]:	< 80% of SO ₂ response
	NO ₂	[488ppm]:	- 160% < x < 0 of SO ₂ response
	NO	[795ppm]:	- 5% < x < 0 of SO ₂ response
	H ₂ S	[504ppm]:	< 2% of SO ₂ response
	CO	[249ppm]:	< 10% of SO ₂ response
Weight:	approximately 24 g		
Material in Contact with Media:	PP, PPS, PTFE, stainless steel		

:: STORAGE CONDITIONS IN 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	Remarks
SO ₂ - Sensor I-61F	48 01 11	grey	potentiostat integrated

This data sheet is subject to change without prior notice. [I-61F-Rev03_2018_0202.doc]

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