

Product Specification of:

## SO<sub>2</sub> - Industrial Sensor / Type I-61F



### :: KEY FEATURE ::

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

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

<b>Operating Principle:</b>	3-electrode potentiostatic cell with potentiostat	
<b>Electrical Connector:</b>	4-pin Molex®	
<b>Sensor Lifetime:</b>	~ 2 years	
<b>Gas Connector:</b>	M16 x 1 thread	
<b>Measurement Range:</b>	0 to 500 ppm	
<b>Maximum Overload:</b>	up to 1,000 ppm	
<b>Sensitivity:</b>	170 to 350 nA/ppm	
<b>Response Time t<sub>90</sub>:</b>	< 25 s	
<b>Drift:</b>	< 10 % signal/year	
<b>Zero Offset Current:</b>	< ± 1 ppm	
<b>Operating Temperature:</b>	0 to 50 °C	
<b>Pressure Range:</b>	750 to 1,250 hPa	
<b>Humidity Range:</b>	30 to 98 % RH	
<b>Interferences:</b>	CO: < 20 nA/ppm	NO <sub>2</sub> : < - 400 nA/ppm
	H <sub>2</sub> S: < 20 nA/ppm	NO: < 3 nA/ppm
	O <sub>2</sub> : none	
<b>Weight:</b>	approximately 24 g	
<b>Material in Contact with Media:</b>	PP, PPS, PTFE, stainless steel	



### :: STORAGE CONDITIONS ::

<b>Temperature Range:</b>	recommended: 5 to 30 °C
	maximum: -20 to 50 °C
<b>Ambient Pressure:</b>	600 to 1,250 hPa
<b>Humidity:</b>	30 to 98 % RH
<b>Shelf Life:</b>	< 3 months recommended

### :: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour
SO <sub>2</sub> - Sensor I-61F	48 01 11	grey

*This data sheet is subject to change without prior notice. [I-61F-Rev\_022012.doc]*

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