## Made in Germany



## Type A-01



## **KEY FEATURES**

Galvanic gas sensor designed for use in automotive exhaust gas analysers, released according to PTB 18.10, meets all OIML standards and BAR '02 requirements.

Electrical Connector:	3-pin-Molex®		
Measurement Range:	0 to 25 Vol.%		
Accuracy:	< 2 Vol.% ± 0.1 % < 25 Vol.% ± 0.5 %		
Sensor Lifetime:	< 3 years @ ambient air		
Expected Operating Life:	~ 500,000 Vol.% h		
Intitial Output Signal:	8.0 to 14.0 mV @ dry ambient air		
Response Time t90:	<5s		
Signal Response to N <sub>2</sub> :	U <sub>4</sub> /200 @ 100% N <sub>2</sub> in < 40 s		
Drift:	10 % / year		
Operating Temperature:	0 to 50 °C		
Pressure Range:	700 to 1750 hPa		
Influence of Humidity:	- 0.03 % rel. 0, reading per % RH		
Recommended Load Resistor:	≥ 10 k0hm		
Temperature Compensation: NTC	NTC		
Interferences:	$< 0.1 \% 0_2$ response to:		
	15.0 % $\rm CO_2$ balanced $\rm N_2$ 10.0 % CO balanced $\rm N_2$ 3,000 ppm NO balanced $\rm N_2$	3,000 ppm C3H8 balanced $N_2$ 500 ppm H <sub>2</sub> S balanced N <sub>2</sub> 500 ppm SO <sub>2</sub> balanced N <sub>2</sub> 1,000 ppm Benzene balanced N <sub>2</sub>	
Weight:	approximately 25 g		
Material in Contact with Media:	PA 12, PPS, PTFE, stainless steel		

recommended : 5 °C to 30 °C maximum: - 20 °C to 50 °C	
600 to 1750 hPa	
< 6 months recommended	

RELATED PRODUCTS			
Product	Part-No.	Housing Colour	Other Specifics
0 <sub>2</sub> - Sensor A-01M	44 01 01	white	Initial Output Signal: 8.0 to 12.5 mV, Cap diameter: 31.6 mm
0 <sub>2</sub> - Sensor A-01T	47 00 03	translucent	Initial Output Signal: 9.0 to 13.5 mV, Cap diameter: 31.6 mm
0 <sub>2</sub> - Sensor A-01AVLT	47 00 05	translucent	Initial Output Signal: 9.0 to 12.0 mV, Cap diameter: 30.2 mm
0 <sub>2</sub> - Sensor A-01ST	47 00 10	translucent	Initial Output Signal: 10.0 to 14.0 mV, Cap diameter: 31.6 mm

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