



Product Specification of:

NO – Automotive Sensor / Type A – 22

.: KEY FEATURE .:

Amperometric gas sensor designed for use in exhaust gas analyzers, meets all BAR '02 requirements.

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®								
Gas Connector:	M16 x 1 thread								
Measurement Range:	0 to 5,000 ppm								
Sensitivity:	45 to 75 nA/ppm								
Response Time t_{90}:	< 5 s								
Drift:	< 5 % signal/year								
Linearity Error:	± 3 % from 0 to 2,000 ppm ± 5 % from 2,000 ppm to full scale								
Repeatability:	± 2 % of signal, 20 ppm absolute								
Operating Temperature:	0 to 50 °C								
Pressure Range:	700 to 1750 hPa								
Interferences:	± 20 ppm NO response to: <table> <tr> <td>16 % CO₂ balance N₂</td> <td>3,000 ppm C₃H₈ balance N₂</td> </tr> <tr> <td>10 % CO balance N₂</td> <td>75 ppm H₂S balance N₂</td> </tr> <tr> <td>100 % noble gases</td> <td>75 ppm SO₂ balance N₂</td> </tr> <tr> <td>3,000 ppm NO₂ balance N₂</td> <td>1,000 ppm Benzene balance N₂</td> </tr> </table>	16 % CO ₂ balance N ₂	3,000 ppm C ₃ H ₈ balance N ₂	10 % CO balance N ₂	75 ppm H ₂ S balance N ₂	100 % noble gases	75 ppm SO ₂ balance N ₂	3,000 ppm NO ₂ balance N ₂	1,000 ppm Benzene balance N ₂
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.: STORAGE CONDITIONS .:

Temperature Range:	recommended: 5 to 25 °C maximum: -20 to 60 °C
Ambient Pressure:	700 to 1750 hPa
Humidity:	10 to 98 % RH
Shelf Life:	< 3 months recommended
Weight:	approximately 24 g
Material in Contact with Media:	PP, PPS, PTFE, stainless steel

.: RELATED PRODUCTS .:

Product	Part-No.	Housing Colour	Other Specifics
NO - Sensor A-22	44 00 05	grey	
NO - Sensor A-23	44 00 16	grey	reversed pin configuration

This data sheet is subject to change without prior notice. [A-22-Rev_022011.doc]

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IT Dr. Gambert GmbH .: Hinter dem Chor 21 .: 23966 Wismar .: Germany
 Phone: +49 (0)3841 220 050 .: Fax: +49 (0)3841 220 052 2 .: E-Mail: sales@itg-wismar.de

www.itg-wismar.de