

Product Specification of:

## NO – Automotive Sensor / Type A – 21



### .: 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.*

<b>Operating Principle:</b>	3-electrode potentiostatic cell with potentiostat
<b>Electrical Connector:</b>	4-pin Molex® on wire
<b>Gas Connector:</b>	M16 x 1 thread
<b>Measurement Range:</b>	0 to 5,000 ppm
<b>Sensitivity:</b>	45 to 75 nA/ppm
<b>Response Time <math>t_{90}</math>:</b>	< 5 s
<b>Drift:</b>	< 5 % signal/year
<b>Linearity Error:</b>	± 3 % from 0 to 2,000 ppm ± 5 % from 2,000 ppm to full scale
<b>Repeatability:</b>	± 2 % of signal, 20 ppm absolute
<b>Operating Temperature:</b>	0 to 50 °C
<b>Pressure Range:</b>	700 to 1750 hPa
<b>Interferences:</b>	± 20 ppm NO response to: 16 % CO <sub>2</sub> balance N <sub>2</sub> 3,000 ppm C <sub>3</sub> H <sub>8</sub> balance N <sub>2</sub> 10 % CO balance N <sub>2</sub> 75 ppm H <sub>2</sub> S balance N <sub>2</sub> 100 % noble gases                         75 ppm SO <sub>2</sub> balance N <sub>2</sub> 3,000 ppm NO <sub>2</sub> balance N <sub>2</sub> 1,000 ppm Benzene balance N <sub>2</sub>
<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 25 °C maximum: -20 to 60 °C
<b>Ambient Pressure:</b>	700 to 1750 hPa
<b>Humidity:</b>	10 to 98 % RH
<b>Shelf Life:</b>	< 3 months recommended

### .: RELATED PRODUCTS .:

Product	Part-No.	Housing Colour
NO -Sensor A-21	44 00 08	grey

*This data sheet is subject to change without prior notice. [A-21\_Rev\_012012.doc]*

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