# automotive

# R'Series O<sub>2</sub> Sensors

# **Range includes:**

R17A, R17AH R21A R22A, R22AH

As used by most automotive emission testing equipment manufacturers.



The 'R' series of Oxygen Sensors from Viamed feature special Rhodium plating on the cathode resulting in greater resistance to the effects of CO<sub>2</sub>, increasing the life of the sensor when used in exhaust emissions testing.



Sensor models

R17A, R17AH, R21A, R22A, R22AH

**Output range** 

A Model: 7-13 mV in air at 25°C, sea level (standard) AH Model: 10.5-13.5 mV in air at 25°C, sea level (standard)

Other ranges optional

Range 0 to 100% O<sub>2</sub>

Resolution Better than 0.1% O<sub>2</sub>

Linearity +/- 1% of full scale at constant temperature and pressure

**Expected life** 36 months at 20.9% O2, 25°C, 50% RH

Response time 30 seconds or less 20.9% O2 to 0.1% O2: (actual response of sensor is <6 seconds 0 to 90%  $O_2$ )

Humidity 0 to 99% RH, non-condensing

Operating temperature range  $0^{\circ}$ C to +  $50^{\circ}$ C

Temperature compensation +/- 5% of reading over operating range

(at thermal equilibrium)

**Cross interference** 

Less than 0.1% O2 response to: 15% CO<sub>2</sub>, balance N<sub>2</sub>

7% CO2, balance N2

3000 ppm NO, balance N2 3000 ppm HC (Hexane), balance N2

3 pin Molex (R21A and R22A, R22AH) Switchcraft mini phone jack (R17A, R17AH) Connectors

**Approvals** PTB, BAR97, CE

**Connecting thread** 

R17A, R17AH Metric Thread, M16

American Thread, 5/8-24 UNEF **R21A** 

R22A, R22AH Metric Thread, M16

## Manufactured by

Teledyne Analytical Instruments

















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BS EN ISO 9001 - 2000 ISO 13485 - 2003 CMDCAS

