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

## Range includes:

R-17A-LV R-17A, R-21A, R-22A R-17AV, R-21AV, R-22AV R-17AH, R-22AH

As used by most automotive emissions 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  $CO_2$ , increasing the life of the sensor when used in exhaust emissions testing.



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

## Sensor models

R-17A-LV, R-17A, R-21A, R-22A, R-17AV, R-21AV, R-22AV, R-17AH, R-22AH

**Output range** 

A-LV Model: 7 - 11.5 mV A Models (R-17A, R-22A): 7 - 13 mV A Model (R-21A): 9 - 14 mV AV Models: 9 - 13 mV AH Models: 10.5 - 13.5 mV

Outputs in air at 25°C, sea level

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

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

± 1% of full scale at constant temperature and Linearity

pressure

36 months at 20.9% O<sub>2</sub>, 25°C, 50% RH Expected life

30 seconds or less 20.9% O<sub>2</sub> to 0.1% O<sub>2</sub>: Response time

(actual response of sensor is < 6 seconds 0 to

90% O<sub>2)</sub>

0 - 99% RH, non-condensing **Humidity** 

Operating temperature range 0°C to +50°C

**Temperature compensation** ± 5% of reading over operating range

(at thermal equilibrium)

**Cross interference** 

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

7% CO, balance N<sub>2</sub>

3000 ppm NO, balance N<sub>2</sub> 3000 ppm Hexane, balance N<sub>2</sub>

Connectors 3 pin Molex

(R-21A, R-22A, R-21AV, R-22AV, R-22AH)

Switchcraft mini phone jack

(R-17A-LV, R-17A, R-17AV, R-17AH)

**Approvals** PTB, BAR90, BAR97, CE

EN60601 (89/336/EEC)

Connecting thread

R-17A-LV, R-17A, R-17AV, R-17AH Metric Thread, M16

R-21A, R-21AV American Thread, 5/8-24 UNEF

R-22A, R-22AV, R-22AH Metric Thread, M16

Manufactured By

Distributed by:



Specification Subject to Change





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CE





R-17A-LV 0110107





**R-17A** 0110117









**R-22A** 0110122





**R-17AV** 0110127





**R-21AV** 0110131





R-22AV 0110132













