

automotive

‘R’ Series O₂ 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.

- PTB, BAR90, BAR97 and CE product approval
- Accurate measurement performance
- Exceeds industry requirements
- Long life in the field
- Fast response time
- Consistent linear response
- Stable zero
- Choice of connector and thread options

The ‘R’ series of Oxygen Sensors from Viamed feature special Rhodium plating on the cathode resulting in greater resistance to the effects of CO₂, increasing the life of the sensor when used in exhaust emissions testing.



VIAMED

'R' Series O₂ 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 Model (R-17A, R-22A):	7 - 13 mV
A Model (R-21A):	9 - 14 mV
AV Model:	9 - 13 mV
AH Model:	10.5 - 13.5 mV Outputs in air at 25°C, sea level

Range

0 to 100% O₂

Resolution

Better than 0.1% O₂

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% O₂)

Humidity

0 - 99% RH, non-condensing

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 ₂ response to:	15% CO ₂ , balance N ₂
	7% CO, balance N ₂
	3000 ppm NO, balance N ₂
	3000 ppm Hexane, balance N ₂

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



Specification Subject to Change

Distributed by:



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R-17A-LV
0110107



R-17A
0110117



R-21A
0110121



R-22A
0110122



R-17AV
0110127



R-21AV
0110131



R-22AV
0110132



R-17AH
0110137



R-22AH
0110142

