

automotive

'R' Series O₂ Sensors

Range includes:

R-17A-LV

R-17A, R-21A, R-22A

R-17AV, 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-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	

Range	0 to 100% O ₂
Resolution	Better than 0.1% O ₂
Linearity	± 1% of full scale at constant temperature and pressure
Expected life	36 months at 20.9% O ₂ , 25°C, 50% RH
Response time	30 seconds or less 20.9% O ₂ to 0.1% O ₂ : (actual response of sensor is < 6 seconds 0 to 90% O ₂)
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-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 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-22AV
0110132



R-17AH
0110137



R-22AH
0110142



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