

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% 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% O₂ 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-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:



Part Number: 0190061
Date: 01/17



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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