

automotive

‘R’ Series O₂ Sensors

As used by most automotive emissions testing equipment manufacturers.

Range includes:

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



- PTB and BAR97 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:	7 - 13 mV*
AV Model:	9 - 13 mV*
AH Model:	10.5 - 13.5 mV*

* in air at 25°C, sea level

Range	0 to 100% O ₂
Resolution	Better than 0.1% O ₂
Linerarity	± 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 ₂ , balance N ₂ 3000 ppm NO, balance N ₂ 3000 ppm HC (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, BAR97, EN60601 (89/336/EEC)
Connecting Thread	R-17A-LV/R-17A, R-17AH, R-17AV Metric Thread, M16 R-21A, R-21AV American Thread, 5/8-24 UNEF R-22A, R-22AH, R-22AH Metric Thread, M16

Manufactured By


TELEDYNE
ANALYTICAL
INSTRUMENTS

Specification Subject to Change

Distributed by:



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BS EN ISO 9001:2008
ISO 13485:2003

FS 28344 MD 78787



Part Number: 0190061
Date: 01/12



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