

automotive

Automotive O₂ Sensors

Range includes:
R-17A-LVG
R-17AVG
R-22AVG

As used by most automotive emissions testing equipment manufacturers.



- 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 Automotive Oxygen Sensors from Viamed are engineered to provide greater reliability and consistency.





R-17A-LVG
0110157



R-17AVG
0110177



R-22AVG
0110182

Sensor models	R-17A-LVG, R-17AVG, R-22AVG
Output range	
R-17A-LVG:	7.0 - 11.5 mV
R-17AVG	9.0 - 13.0 mV
R-22AVG	9.0 - 13.0 mV
	Outputs in air at 25°C, sea level
Measurement range	0 to 100% O ₂
Repeatability	< 1% volume oxygen at constant temperature and pressure
Pressure range	0.6 to 2.0 bar
Linearity error	< 3% relative
Accuracy	0% to 3.3% oxygen: ± 0.1% absolute 3.4% to 100% oxygen: ± 3.0% relative
Warm-up time	< 30 minutes after sensor installed
Zero offset voltage	< 40µV in 100% nitrogen
Nominal sensor life	≤ 500,000 % oxygen hours
Response time	< 5 seconds for 90% of final value. < 40 seconds fall time from 20.95% to 0.1% oxygen, when 100% nitrogen applied
Operating humidity	0 - 99% RH (non-condensing)
Operating temperature range	0°C to +50°C
Temperature compensation error	+25 to +40 °C: 3% relative 0 to +50 °C: 8% relative
Cross interference	< 0.1% volume oxygen to: 15% CO ₂ balance N ₂ , 10% CO balance N ₂ , 3000 ppm NO balance N ₂ , 3000 ppm C ₃ H ₈ balance N ₂ , 500 ppm H ₂ S balance N ₂ , 500 ppm SO ₂ balance N ₂ , 1000 ppm benzene balance N ₂
Connectors	3.5 mm mono phone jack (R-17A-LVG, R-17AVG) 3 pin Molex (22-11-1031) (R-22AVG)
Connecting thread	Intermediate thread, metric/unified extra fine
Flow diverter	Yes
Packagin	Gas barrier bag - transparent
Warranty	12 months from date of sales invoice

All specifications are applicable at standard conditions: 1013 mbar, 25°C dry ambient air

Specification Subject to Change

Distributed by:



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