

automotive

# Automotive O<sub>2</sub> 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.

 VIAMED



**R-17A-LVG**  
**0110157**



**R-17AVG**  
**0110177**



**R-22AVG**  
**0110182**

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