

Specification Datasheet - 0110045

Viamed

R-45V Oxygen Sensor



Specifications

Part number	0110045
Model	R-45V
Output	9 mV – 13 mV
Output connector/connection	3 pin Molex 22-11-1031
Input connector/connection	M16 x 1
Input O ring	Yes
Range	0 – 100% oxygen
Accuracy	< 1% volume oxygen when calibrated in 100% oxygen
Influence of pressure	Output proportional to change in oxygen partial pressure
Linearity error	< 3% relative
Warm up time	< 30 minutes after sensor installed
Zero offset voltage	< 0.5% oxygen reading in 100% nitrogen @ 25°C after 5 minutes
Cross interference	Meets requirements of EN ISO 21647
Response time (t90)	< 12 s for 90% of final value.
Operating humidity	0 – 99% R.H. (non-condensing).
Influence of humidity	- 0.03% relative per % R.H. at 25 °C.
Influence of mechanical shock	< 1% relative after fall from 1m
Operating temperature range	0 – 50 °C
Storage temperature	-20 to +50 °C
Recommended storage temperature	+5 to +15 °C
Temperature compensation	Integrated NTC thermistor
Temperature compensation error	+20 to +40 °C: 3% relative 0 to +50 °C: 8% relative
Nominal sensor life	> 1,000,000 % oxygen hours
Long term output drift	< 1% volume oxygen per month, typically < -15% over sensor lifetime.
Recommended load	> 10 KΩ
Shelf life	24 months
Weight	28 g
Flow diverter	Not included
Standards	Meets with requirements of EN ISO 21647. Designed and manufactured according to EN ISO 9001:2008 & EN 13485:2007
Packaging	Blister/Blister card
Warranty period	15 months from date of sales invoice

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