

Specification Datasheet - 0110043

Viamed

R-43V Oxygen Sensor



Specifications

Part number	0110043 (pack of 2 sensors)
Model	R-43V
Output	28 mV – 50 mV
Output connector/connection	Gold plated slip rings x 2
Input connector/connection	Not applicable
Input O ring	No
Range	0 – 100% oxygen
Pressure range	0.6 bar – 2 bar (ppO ₂ – 1250 mbar O ₂)
Accuracy	Meets requirements of ISO 80601-2-55
Repeatability	< 1% volume oxygen at constant temperature and pressure
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 ISO 80601-2-55
Response time (t ₉₀)	< 17 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	> 500,000 % oxygen hours
Long term output drift	< 1% volume oxygen per month, typically < -15% over sensor lifetime.
Recommended load	> 10 KΩ
Weight	28 g
Flow diverter	Not applicable
Standards	Meets with requirements of EN ISO 21647. Designed and manufactured according to EN ISO 9001:2008 & EN 13485:2007
Packaging	Blister/Blister card x 2
Warranty period	6 months from date of sales invoice

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