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Specification Datasheet - 0110014

Viamed
R-15V Oxygen Sensor

Specifications

Part number	0110014
Model	R-15V
Output	14 mV – 20 mV with 300 Ω load
Output connector/connection	2 gold plated slip rings (inner –ve, outer +ve)
Input connector/connection	Not applicable
Input O ring	Not applicable
Measurement range	0 – 100% oxygen
Pressure range	0.6 bar to 2.0 bar (ppO2 0 to 1250 mbar oxygen)
Accuracy	Meets the 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	< 200 µV oxygen reading in 100% nitrogen @ 25ºC after 5 minutes
Cross interference	Meets the requirements of ISO 80601-2-55
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 ºC.
Influence of mechanical shock	< 1% relative after fall from 1m
Operating temperature range	0 – 50 ºC
Storage temperature	-20 to +50 ºC
Recommended storage temperature	+5 to +15 ºC
Temperature compensation	No temperature compensation
Temperature compensation error	Not applicable
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
Shelf life	24 months
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
Warranty period	15 months from date of sales invoice

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