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Product Specification of:

Medical Oxygen Sensor

Type: M-14TB

Part Number: 410319

Nuova ID: E-M-14TB

RoHS compliant and SVHC free

Meets the applicable requirements of ISO 80601-2-55

Comes with CE marking. further regulatory registrations available upon request

Produced under EN ISO 13485 Quality Management System

DOCUMENT PURPOSE

The purpose of this document is to present the performance specification and key features of the sensor.

This document should be used in conjunction with the Operating Manual of the instrument and the Product Safety Data Sheet of the sensor.

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Product Specification of:
Medical Oxygen Sensor
Type: M-14TB
Part Number: 410319
Nuova ID: E-M-14TB

KEY FEATURE

Gas Sensor that shows high signal stability at low cross interferences to anesthesia gases combined with a superior linearity over the entire range.

Measurement Range:	0 to 100 Vol.%
Expected Operating Life:	> 500.000 Vol.%h
Sensor Lifetime:	< 3 years @ ambient air
Electrical Connector:	2.5mm mono jack
Initial Output Signal:	8.0 to 12.0 mV @ dry ambient air
Response Time t90:	< 17 s
Signal Drift (long-term):	≤ 1 Vol.%O_2/month @ air, averaged across 12 months
Operating Temperature:	10 to 40 °C
Pressure Range:	700 to 1250 hPa
Linearity Error:	≤ 3% @ 100% O_2, applied for 5 min
Zero Offset Voltage:	≤ 0.3 Vol.%O_2 @ 100 Vol.%N_2, applied for 5 min
Repeatability:	± 1 % Vol. O_2 @ 100 % O_2, applied for 5 min
Influence of Humidity:	- 0.03 % rel. O_2 reading per % RH
Recommended Load Resitor:	≥ 10 kOhm
Interferences:	according to DIN EN ISO 80601-2-55
Weight:	approximately 28g
Material in Contact with Media:	PA, PPS, PTFE, stainless steel

STORAGE CONDITIONS

Temperature Range:	Recommended: 5 to 30 °C Maximunm: -20 to 50 °C (≤10h)
Humidity:	up to 100 % RH, non-condensing
Shelf Life:	< 6 months recommended

RELATED PRODUCTS

Product	Part-No.	Housing Colour	Other Specifics
O2 - Sensor M-14TB	41 03 19	translucent	2.5mm mono jack
O2 - Sensor M-14	41 00 19	white	0.141“ miniature phone plug at cable
O2 - Sensor M-14T	41 01 19	translucent	0.141“ miniature phone plug at cable
O2 - Sensor M-14ST	41 02 19	translucent	2.5 mm Kobiconn connector

Important Note: All characteristics are based on conditions at 25 °C, 50 %rH, 1013 hPa and a gas flow of > 2.5 L_S/min. For sensor performance data under other conditions, contact ITG.

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