

Product Specification of:

O₂ - Medical Sensor / Type M – 03



:: KEY FEATURE ::

Long life gas sensor that shows high signal stability at low cross interferences to anesthesia gases combined with superior linearity over the entire range.

All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa.

Measurement Range:	0 to 100 Vol.%
Expected Operating Life:	~ 1,000,000 Vol.% h
Sensor Lifetime:	< 6 years @ ambient air
Electrical Connector:	3.5 mm mono jack
Initial Output Signal:	13.0 to 17.0 mV @ dry ambient air
Response Time t_{90}:	< 12 s
Drift:	< 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:	≤ 200 μV in 100 % 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 Resistor:	≥ 10 kOhm
Temperature Compensation:	NTC
Interferences:	according to DIN EN ISO 21647 and ISO 7767



:: STORAGE CONDITIONS ::

Temperature Range:	recommended: 5 to 30 °C maximum: - 20 to 50 °C
Humidity:	up to 100 % RH
Shelf Life:	< 6 months recommended
Weight:	approximately 26 g
Material in Contact with Media:	PA, PPS, PTFE, stainless steel

:: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour	Other Specifics
O2-Sensor M-03	41 00 03	white	
O2-Sensor M-03	41 02 03	white	with flow diverter
O2-Sensor M-03B	41 01 03	white	high output
O2-Sensor M-03T	47 00 13	translucent	

This data sheet is subject to change without prior notice. [M-03_Rev_102011.doc]

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IT Dr. Gambert GmbH :: Hinter dem Chor 21 :: 23966 Wismar :: Germany
Phone: +49 (0)3841 220 050 :: Fax: +49 (0)3841 220 052 2 :: E-Mail: sales@itg-wismar.de

www.itg-wismar.de