

Product Specification of:

O₂ - Medical Sensor / Type M – 05



:: KEY FEATURE ::

Current output gas sensor that shows high signal stability at low cross interferences to anesthesia gases combined with a 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:	> 300,000 Vol.% h
Electrical Connector:	gold-plated slip rings on PCB
Initial Output Signal:	200 µA ± 40 µA @ dry ambient air
Response Time t_{90}:	< 20 s
Drift:	< 2 % 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:	less then 0.4% of oxygen equivalent @ 25 °C in 100% N ₂ applied for 3 min
Repeatability:	± 1 % Vol. O ₂ @ 100 % O ₂ , applied for 5 min
Influence of Humidity:	- 0.03 % rel. O ₂ reading per % RH
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:	< 3 months recommended
Weight:	approximately 32 g
Material in Contact with Media:	CPVC, PPS, PTFE, stainless steel

:: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour	Other Specifics
O ₂ -Sensor M-05	41 00 07	grey	flat base

This data sheet is subject to change without prior notice. [M-05_Rev_102011.doc]

page 1 of 1

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