

Product Specification of:

O₂ - Medical Sensor / Type M – 01



:: KEY FEATURE ::

Single-Cathode 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:	> 500,000 Vol. % h
Sensor Lifetime:	< 3 years @ ambient air
Electrical Connector:	gold-plated slip rings
Initial Output Signal:	14.0 to 20.0 mV @ dry ambient air, load 300 Ohm
Response Time t_{90}:	< 17 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
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 20 g
Material in Contact with Media:	PA, PPS, PTFE, stainless steel

:: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour	Other Specifics
O ₂ -Sensor M-01	41 00 01	white	
O ₂ -Sensor M-01L2	41 01 01	white	US-Version
O ₂ -Sensor M-01T	47 00 08	translucent	
O ₂ -Sensor M-01TL2	41 02 01	translucent	US-Version

This data sheet is subject to change without prior notice. [M-01_Rev_102011.doc]

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