

Product Specification of:

O₂ - Medical Sensor / Type M – 02



.: KEY FEATURE .:

Dual-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:	14.5 to 19.5 mV @ dry ambient air, load 600 Ohm
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
Output Differential:	U1-U2 < 10 % < U1 + U2 @ 20 % to 100 % O ₂
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:	< 4 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
O2-Sensor M-02	41 00 02	white	
O2-Sensor M-02L2	41 01 02	white	US-Version
O2-Sensor M-02T	47 00 09	translucent	
O2-Sensor M-02TL2	41 02 02	translucent	US-Version

This data sheet is subject to change without prior notice. [M-02_Rev_102011.doc]

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