

Product Specification of:

O₂ - Medical Sensor / Type M – 12



:: 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.

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:	3-pin Molex®
Initial Output Signal:	8.0 to 12.5 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 24 g
Material in Contact with Media:	PA, PPS, PTFE, stainless steel

:: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour
O ₂ - Sensor M-12	41 00 17	white
O ₂ - Sensor M-12T	47 00 29	translucent

This data sheet is subject to change without prior notice. [M-12_Rev_102011.doc]

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