

O₂ - Medical Sensor

Type M-80



KEY FEATURES

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.%O ₂
Expected Operating Life:	≤ 750.000 Vol.% h
Sensor Lifetime:	3 years @ ambient air
Electrical Connector:	3-pin Molex®
Initial Output Signal:	11.0 to 14.0 mV @ dry ambient air
Output Signal Difference:	1.25 to 1.6 mV @ dry ambient air
Response Time t₉₀:	< 12 s @ flow rates of 0.2 to 2.0 l / min
Drift:	< 1 % volume O ₂ / month @ air, averaged across 12 month
Operating Temperature:	10 to 45 °C
Pressure Range:	700 to 1250 hPa
Linearity Error:	≤ 2 % @ 100 % O ₂ applied for 5 min
Zero Offset Voltage:	≤ 200 µV in 100 % N ₂ applied for 5 min
Repeatability:	± 1 % volume 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 80601-2-55
Weight:	approximately 25 g
Material in Contact with Media:	PA, PPS, PTFE, stainless steel

STORAGE CONDITIONS

Temperature Range:	recommended: 5 to 30 °C maximum: - 20 to 50 °C (≤10h)
Humidity:	up to 100 % RH, non-condensing
Shelf Life:	< 3 month recommended

RELATED PRODUCTS

Product	Part-No.	Housing Colour
O ₂ -Sensor M-80	41 00 31	white

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