

O₂ - Medical Sensor

Type M-01



KEY FEATURES

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, depending on application
Electrical Connector:	gold-plated slip rings
Initial Output Signal:	14.0 to 20.0 mV @ dry ambient air, load 300 Ohm
Response Time t₉₀:	< 17 s
Drift:	< 1% Vol. O ₂ /month @ air, averaged across 12 months
Operating Temperature:	10 - 40 °C
Pressure Range:	700 to 1250 hPa
Linearity Error:	≤ 3 % @ 100% O ₂ applied for 5 min
Zero Offset Voltage:	≤ 0,3 Vol. % O ₂ @ 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 80601-2-55
Weight:	approximately 20 g
Material in Contact with Media:	PA, PPS, PTFE, stainless steel

STORAGE CONDITIONS

Temperature Range:	recommended : 5 °C to 30 °C maximum: - 20 °C to 50 °C (≤ 10h)
Humidity:	up to 100% RH, non condensing
Shelf Life:	< 6 months recommended

RELATED PRODUCTS

Product	Part-No.	Housing Colour	Other Specifics
O ₂ -Sensor M-01	41 00 01	white	
O ₂ -Sensor M-01L2	41 00 01	white	US-Version
O ₂ -Sensor M-01T	47 06 16	translucent	
O ₂ -Sensor M-01TL2	41 02 01	translucent	US-Version

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