

O₂ - Medical Sensor

Type M-16HT



KEY FEATURES

Long life gas sensor that shows high signal stability in a wide range of temperature as well as low cross interferences to anaesthesia gases combined and 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:	~ 1,200,000 Vol. % h
Sensor Lifetime:	< 6 years @ ambient air, depending on application
Electrical Connector:	3-pin Molex®
Initial Output Signal:	9.5 to 16 mV @ dry ambient air
Response Time t₉₀:	< 12 s
Drift:	< 1% Vol. O ₂ /month @ air, averaged across 12 months
Operating Temperature:	10 to 50 °C, intermittently 60 °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 % full scale
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 24 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-16HT	47 06 16	white	designed for high temperature range
O ₂ -Sensor M-16HTT	47 02 16	translucent	designed for high temperature range

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