

Product Specification of:

O₂ - Medical Sensor / Type M-16PT



:: KEY FEATURE ::

Long life gas sensor that shows high signal stability as well as low cross interferences to anesthesia gases combined and superior linearity over the entire range.

All characteristics are based on conditions at 25°C, 50% RH, 1013 hPa and gas flow ≥ 2.5 L/min.

Measurement Range:	0 to 100 Vol.%O ₂
Expected Operating Life:	~ 1,200,000 Vol.%O ₂ h
Sensor Lifetime:	< 6 years @ ambient air, depending on application
Electrical Connector:	3 Pin mini spox plug
Initial Output Signal:	9.5 to 16.0 mV @ dry ambient air
Response Time t₉₀:	< 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 Vol.%O ₂ , applied for 5 min
Zero Offset Voltage:	≤ 0.3 Vol.%O ₂ @ 100 Vol.%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 IN UNOPENED ORIGINAL PACKAGE ::

Temperature Range:	recommended: 5 to 30 °C maximum: - 20 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-16	47 00 16	white	----
O ₂ - Sensor M-16T	47 01 16	translucent	----
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
O ₂ - Sensor M-16PT	47 12 16	translucent	3 Pin mini spox plug connector

This data sheet is subject to change without prior notice. [M-16PT_Rev01_2019_0319.doc]