

# O<sub>2</sub> - Medical Sensor

## Type M-16



### KEY FEATURES

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 and 1013 hPa.

<b>Measurement Range:</b>	0 to 100 Vol. %
<b>Expected Operating Life:</b>	~ 1,200,000 Vol. % h
<b>Sensor Lifetime:</b>	< 6 years @ ambient air, depending on application
<b>Electrical Connector:</b>	3-pin Molex®
<b>Initial Output Signal:</b>	9.5 to 16 mV @ dry ambient air
<b>Response Time t<sub>90</sub>:</b>	< 12 s
<b>Drift:</b>	< 1% Vol. O <sub>2</sub> /month @ air, averaged across 12 months
<b>Operating Temperature:</b>	10 - 40 °C
<b>Pressure Range:</b>	700 to 1250 hPa
<b>Linearity Error:</b>	≤ 3 % @ 100% O <sub>2</sub> applied for 5 min
<b>Zero Offset Voltage:</b>	≤ 0,3 Vol. % O <sub>2</sub> @ 100% N <sub>2</sub> applied for 5 min
<b>Repeatability:</b>	± 1% full scale
<b>Influence of Humidity:</b>	- 0.03 % rel. O <sub>2</sub> reading per % RH
<b>Recommended Load Resistor:</b>	≥ 10 kOhm
<b>Temperature Compensation:</b>	NTC
<b>Interferences:</b>	according to DIN EN ISO 80601-2-55
<b>Weight:</b>	approximately 24 g
<b>Material in Contact with Media:</b>	PA, PPS, PTFE, stainless steel

### STORAGE CONDITIONS

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

### RELATED PRODUCTS

Product	Part-No.	Housing Colour	Other Specifics
O <sub>2</sub> -Sensor M-16	47 00 16	white	
O <sub>2</sub> -Sensor M-16T	47 01 16	translucent	
O <sub>2</sub> -Sensor M-16HT	47 06 16	white	designed for high temperature range
O <sub>2</sub> -Sensor M-16HTT	47 02 16	translucent	designed for high temperature range

[www.nrc-international.com](http://www.nrc-international.com)



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