

Product Specification of:

**O<sub>2</sub> - Medical Sensor****Type: M - 16**

Part. No.: 47 00 16

**Key Features:** O<sub>2</sub> cell characterized by a particularly long life and yet showing high signal stability in a wide range of temperatures as well as low cross interferences to anesthesia gases and a superior linearity

All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa

Electrical Connector:	3-pin Molex
Measurement Range:	0 to 100 Vol. %
Nominal Sensor Life:	> 1, 500, 000 Vol. % h
Expected Operating Life:	< 6 years @ ambient air
Output Signal:	9.5 to 16 mV @ dry ambient air
Response Time t <sub>90</sub> :	< 12 s @ flow-rates of > 2 l / min.
Drift:	< 1% volume O <sub>2</sub> / month @ air
Operating Temperature:	0 to 40°C
Pressure Range:	750 to 1250 hPa
Linearity Error:	= 1% @ 100% O <sub>2</sub> applied for 5 min
Zero Offset Voltage:	= 200 µV in 100% N <sub>2</sub> , applied for 5 min
Repeatability:	± 1% full scale
Influence of Humidity:	-0.03% rel. O <sub>2</sub> reading per % RH
Recommended Load Resistor:	= 10 kOhm
Temperature Compensation:	NTC
Interferences:	according to DIN EN 12598 and ISO 7767



Tolerance: ± 0.15 mm

**Storage Conditions**

Temperature Range:	recommended: 5 to 30°C maximum: - 20 to 50°C
Humidity:	up to 100% RH
Shelf Life:	< 6 months recommended
Weight:	approximately 24 g
Material in Contact with Media:	PA, PPS, PTFE, stainless steel
Warranty Period:	16 months
Housing Colour:	white

This data sheet is subject to change without prior notice !

[M-16 Rev. 01-05.doc]

page 1 / 1