

Product Specification of:

O₂ - **leadfree** Medical Sensor / Type MLF – 16



:: KEY FEATURES ::

Lead free, RoHS compliant, long-life expectancy.

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

Measurement Range:	0 to 100 Vol.% O ₂
Expected Operating Life:	4 years @ ambient air, depending on application
Nominal Sensor Life:	> 2, 000, 000 Vol.% O ₂ h
Electrical Connector:	3-pin Molex
Mechanical Mating Connector:	fits for M16x1 DIN 13 or 5/8-24 UNEF
Initial Output Signal Range:	9 - 13 mV @ dry ambient air
Response Time t_{90}:	< 7 s
Signal Drift (long term):	< 0.1%/month of sensor output signal @ dry ambient air
Signal Drift (short term):	< 0.1 Vol.%O ₂ /day @ dry ambient air, constant environmental / measurement conditions
Static Temperature Error:	< $\pm 1.5\%$ @ 20-40 °C < $\pm 2\%$ @ 10-20 °C < $\pm 10\%$ @ 0-10 °C / 40-50 °C
Operating Temperature:	0 - 40 °C; intermittent 40 - 50 °C
Ambient Pressure Range:	500 to 1250 mbar
Zero Offset Equivalents:	< 0.3 Vol.%O ₂ @ 100 Vol.% N ₂ applied for 5 min
Linearity Error:	< 3 % @ 100 Vol.% O ₂ applied for 5 min
Influence of Humidity:	- 0.03 % rel. O ₂ reading per % RH
Temperature Compensation:	NTC on sensor PCB
Recommended Load Resistor:	> 1 MOhm
Interferences:	according to DIN EN ISO 80601-2-55
Weight:	approximately 20g
Material in contact with media:	PPS, PTFE, ABS, FPM, stainless steel



:: STORAGE CONDITIONS IN UNOPENED ORIGINAL PACKAGE ::

Temperature Range:	- 20 °C to 40 °C 5 °C to 25 °C recommended 40 °C to 50 °C maximum 1 week
Ambient Pressure Range:	500 to 1250 mbar
Humidity:	up to 100% RH, non-condensing
Shelf Life:	< 6 months recommended

:: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour	Other Specifics
O ₂ -Sensor MLF-16	47 03 16	white	RoHS compliant, lead free

This data sheet is subject to change without prior notice. [MLF-16-Rev04-2018_1219.doc]