

Product Specification of:

O₂ - leadfree Medical Sensor / Type MLF – 12A



:: 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 to 13 mV @ dry ambient air
Response Time t₉₀:	< 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:	< ±10% @ 40-50 °C < ±1.5% @ 20-40 °C < ± 2% @ 10-20 °C < ±10% @ 0-10 °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-12A	41 04 17	white	RoHS compliant, lead free

This data sheet is subject to change without prior notice. [MLF-12A-Rev02-2018_1219.doc]