Product Specification of:

O₂ - leadfree Medical Sensor / Type MLF - 19



.: KEY FEATURE :.

Lead free, RoHS compliant, long-life expectancy.

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

Measurement Range: 0 to 100 Vol.%O₂

Expected Operating Life: 4 years @ ambient air, depending on application

Nominal Sensor Life: $> 2,000,000 \text{ Vol.}\% \text{ O}_2 \text{ h}$

Electrical Connector: 4P4C Handset Modular Jack 4 Position (RJ11), Typ AMP

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 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.%O₂/day @ dry ambient air, constant

environmental / measurement conditions

Static Temperature Error: $< \pm 10\%$ @ 40-50 °C

 $< \pm 1.5\%$ @ 20-40 °C $< \pm 2\%$ @ 10-20 °C $< \pm 10\%$ @ 0-10 °C

Operating Temperature: $0 - 40 \,^{\circ}\text{C}$; intermittent $40 - 50 \,^{\circ}\text{C}$

Ambient Pressure Range: 500 to 1250 mbar

Zero Offset Equivalents: < 0.3 Vol.%O₂ @ 100 Vol.%N₂ applied for 5 min

Linearity Error: < 3 % @ 100 Vol.%O₂ applied for 5 min **Influence of Humidity:** - 0.03 % rel. O₂ reading per % RH

Temperature Compensation: NTC on sensor PCB

Recommended Load Resistor: ≥ 1MOhm

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-19 47 00 42 white RoHS compliant, lead free

This data sheet is subject to change without prior notice. [MLF-19-Rev05-2018_1219.doc]