

Specification Datasheet - 0110707

itg

MLF-60HC Lead-free Oxygen Sensor



:: 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 (1) V _{out} (2) 0 V (3) V ₊ Supply Voltage V ₊ = +5V for operation up to 25% O ₂ V ₊ = +12V for operation up to 100% O ₂
Mechanical Mating Connector:	fits for M16x1 DIN 13 or 5/8-24 UNEF
Output Signal Range:	0.8 to 1.25 V @ 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
Operating Temperature:	0 - 40 °C; intermittent 40 - 50 °C
Pressure Range:	500 to 1250 hPa
Linearity Error:	< 3 % @ 100 Vol.%O ₂ applied for 5 min
Influence of Humidity:	- 0.03 % rel. O ₂ reading per % RH
Recommended Load Resistor:	≥ 1 MOhm
Temperature Compensation:	NTC on sensor PCB
Power Supply:	5 to 12 V D.C.
Interferences:	according to EN ISO 80601-2-55
Weight:	approximately 20 g
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