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# **Specification Datasheet - 0110702** itg MLF-12A 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<sub>2</sub>

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

Nominal Sensor Life: > 2,000,000 Vol.%O<sub>2</sub> 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  $t_{90}$ : < 7 s

**Signal Drift (long term):** < 0.1% / month of sensor output signal @ dry ambient air

**Signal Drift (short term):** < 0.1 Vol.%O<sub>2</sub> / day @ dry ambient air, constant

environmental / measurement conditions

**Static Temperature Error:**  $< \pm 10\%$  @ 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<sub>2</sub> @ 100 Vol.%N<sub>2</sub> applied for 5 min

Linearity Error: < 3 % @ 100 Vol.%O<sub>2</sub> applied for 5 min

**Influence of Humidity:** - 0.03 % rel. O<sub>2</sub> 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 condensingShelf Life:< 6 months recommended</th>

