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Specification Datasheet - 0110706 itg MLF-43 Lead-free Oxygen Sensor



.: KEY FEATURE :.

Lead free, RoHS compliant, long-life expectancy.

All characteristics are based on conditions at 25 °C, 50% RH, 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 Vol.%O₂ h **Electrical Connector:** gold plated slip rings

Initial Output Signal Range: 11 to 15 mV @ dry ambient air, external load resistor: 31 kOhm

Response Time t₉₀: < 7 s

Signal Drift (long term): < 0.1%/month of sensor output signal @ dry ambient air < 0.1 Vol.%O₂/day @ dry ambient air, constant environmental /

measurement conditions

Static Temperature Error: $<\pm3\%$ @ 15-20 °C, external load resistor: 31 kOhm

 $< \pm 1.5\%$ @ 20-40 °C, external load resistor: 31 kOhm

Operating Temperature: 15 - 40 °C

Ambient Pressure Range: 500 to 1250 mbar

Zero Offset Equivalents: $< 0.3 \text{ Vol.}\%O_2 @ 100 \text{ Vol.}\%N_2 \text{ applied for 5 min}$

Linearity Error: < 2 % @ 100 Vol.%O₂ applied for 5 min

Influence of Humidity: - 0.03 % rel. O₂ reading per % RH, non-condensing

Temperature Compensation: NTC on PCB

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