

.: KEY FEATURE :.

Long life gas sensor that shows high signal stability at low cross interferences to anesthesia gases combined with a superior linearity over the entire range.

All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa.

Expected Operating Life:~ 1,000,000 Vol.% hSensor Lifetime:< 6 years @ ambient air, depending on applicationElectrical Connector:3.5 mm mono jackInitial Output Signal:8.0 to 12.0 mV @ dry ambient airResponse Time t₀o:< 16 sDrift:< 1 % Vol. O₂/month @ air, averaged across 12 monthsOperating Temperature:10 to 40 °CPressure Range:700 to 1250 hPaLinearity Error:≤ 3 % @ 100% O₂, applied for 5 minZero Offset Voltage:< 0,3 Vol% O₂ @ 100 % N₂, applied for 5 minInfluence of Humidity:- 0.03 % rel. O₂ reading per % RHRecommended Load Resistor:≥ 10 kOhmTemperature Compensation:NTCInterferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 gMaterial in Contact with Media:PA PPS PTEE stainless steel	Measurement Range:	0 to 100 Vol.%
Electrical Connector:3.5 mm mono jackInitial Output Signal:8.0 to 12.0 mV @ dry ambient airResponse Time t₀o:< 16 sDrift:< 1 % Vol. O₂/month @ air, averaged across 12 monthsOperating Temperature:10 to 40 °CPressure Range:700 to 1250 hPaLinearity Error:≤ 3 % @ 100% O₂, applied for 5 minZero Offset Voltage:≤ 0,3 Vol% O₂ @ 100 % N₂, applied for 5 minRepeatability:± 1 % Vol. O₂ month @ air, averaged across 12 monthsInfluence of Humidity:- 0.03 % rel. O₂ @ 100 % N₂, applied for 5 minRecommended Load Resistor:≥ 10 kOhmTemperature Compensation:NTCInterferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 g	Expected Operating Life:	~ 1,000,000 Vol.% h
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Pressure Range:700 to 1250 hPaLinearity Error:≤ 3 % @ 100% O2, applied for 5 minZero Offset Voltage:≤ 0,3 Vol% O2 @ 100 % N2, applied for 5 minRepeatability:± 1 % Vol. O2 @ 100 % O2, applied for 5 minInfluence of Humidity:- 0.03 % rel. O2 reading per % RHRecommended Load Resistor:≥ 10 kOhmTemperature Compensation:NTCInterferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 g	Drift:	
Linearity Error:≤ 3 % @ 100% O2, applied for 5 minZero Offset Voltage:≤ 0,3 Vol% O2 @ 100 % N2, applied for 5 minRepeatability:± 1 % Vol. O2 @ 100 % O2, applied for 5 minInfluence of Humidity:- 0.03 % rel. O2 reading per % RHRecommended Load Resistor:≥ 10 kOhmTemperature Compensation:NTCInterferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 g	Operating Temperature:	10 to 40 °C
Zero Offset Voltage:≤ 0,3 Vol% O2 @ 100 % N2, applied for 5 minRepeatability:± 1 % Vol. O2 @ 100 % O2, applied for 5 minInfluence of Humidity:- 0.03 % rel. O2 reading per % RHRecommended Load Resistor:≥ 10 kOhmTemperature Compensation:NTCInterferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 g	Pressure Range:	700 to 1250 hPa
Repeatability: $\pm 1 \%$ Vol. $O_2 @ 100 \% O_2$, applied for 5 minInfluence of Humidity: -0.03% rel. O_2 reading per $\%$ RHRecommended Load Resistor: ≥ 10 kOhmTemperature Compensation:NTCInterferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 g	Linearity Error:	\leq 3 % @ 100% O ₂ , applied for 5 min
Influence of Humidity:- 0.03 % rel. O₂ reading per % RHRecommended Load Resistor:≥ 10 kOhmTemperature Compensation:NTCInterferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 g	Zero Offset Voltage:	\leq 0,3 Vol% O_2 @ 100 % N_2, applied for 5 min
Recommended Load Resistor:≥ 10 kOhmTemperature Compensation:NTCInterferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 g	Repeatability:	±1 % Vol. O_2 @ 100 % O_2, applied for 5 min
Temperature Compensation:NTCInterferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 g	Influence of Humidity:	- 0.03 % rel. O ₂ reading per % RH
Interferences:according to DIN EN ISO 80601-2-55Weight:approximately 26 g	Recommended Load Resistor:	≥ 10 kOhm
Weight:approximately 26 g	Temperature Compensation:	NTC
	Interferences:	according to DIN EN ISO 80601-2-55
Material in Contact with Media: PA_PPS_PTEF_stainless_steel	Weight:	approximately 26 g
	Material in Contact with Media:	PA, PPS, PTFE, stainless steel



.: STORAGE CONDITIONS :.

Temperature Range:	recommended: 5 to 30 °C
	maximum: - 20 to 50 °C (≤10h)
Humidity:	up to 100 % RH, non-condensing
Shelf Life:	< 6 months recommended

.: RELATED PRODUCTS :.

Product
O ₂ - Sensor M-15
O ₂ - Sensor M-15
O ₂ - Sensor M-15T
O ₂ - Sensor M-15T
O ₂ - Sensor M-15TL
O ₂ - Sensor M-15TL

Housing Colour white white translucent translucent translucent translucent

Other Specifics

with flow diverter

with flow diverter Initial Output Signal: 3.0 to 8.0 mV Initial Output Signal: 3.0 to 8.0 mV, with flow diverter

This data sheet is subject to change without prior notice. [M-15_Rev04-2014_1016.doc]

Part-No.

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