

O₂ - Medical Sensor

Type M-10



KEY FEATURES

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 and gas flow > 2.5 L/min.

Measurement Range:	0 to 100 Vol.% O ₂
Expected Operating Life:	> 750,000 Vol.% O ₂ h
Sensor Lifetime:	> 3 years @ ambient air, depending on application
Electrical Connector:	modular jack 6P4C
Initial Output Signal:	8.0 to 12.0 mV @ dry ambient air
Response Time t₉₀:	< 16 s
Drift:	< 1 Vol.%/month @ air, averaged across 12 months
Operating Temperature:	10 to 40 °C
Static Temperature Error:	< ± 1.5% @ 20-40 °C < - 3% @ 15-20 °C < - 8% @ 10-15 °C
Pressure Range:	650 to 1250 hPa
Linearity Error:	≤ ± 3 % @ 100 Vol.% O ₂ , within 5 min
Zero Offset Voltage:	≤ 0.3 Vol.% O ₂ @ 100 Vol.% N ₂ , within 5 min
Repeatability:	± 1 % Vol. O ₂ @ 100 Vol.% O ₂ , applied for 5 min
Influence of Humidity:	- 0.03 % rel. O ₂ reading per % RH
Recommended Load Resistor:	≥ 10 kOhm
Temperature Compensation:	NTC
Interferences:	according to DIN EN ISO 80601-2-55
Weight:	approximately 52 g
Material in Contact with Media:	PTFE, ABS, Silicone, Krytox

STORAGE CONDITIONS

Temperature Range:	-15 to 50 °C 10 to 30 °C (recommended) 40 to 50 °C (max. for 1 week)
Humidity:	up to 100 % RH, non-condensing
Shelf Life:	< 6 months recommended

RELATED PRODUCTS

Product	Part-No.	Housing Colour
O ₂ - Sensor M-10	41 00 14	Black
Pck. Unit 50 x M-10	41 04 14	-

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