

O₂ - Medical Sensor

Type M-08



KEY FEATURES

Single cathode gas sensor with high signal stability and superior linearity over the entire range secures long term performance even when exposed to high O₂ load.

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

Measurement Range:	0 to 100 Vol. %
Expected Operating Life:	> 750,000 Vol. % h
Sensor Lifetime:	< 4 years @ ambient air, depending on application
Electrical Connector:	3x gold plated slip-rings
Initial Output Signal:	14.5 to 20.0 mV @ dry ambient air, load 600 Ohm
Response Time t90:	< 12 s
Drift:	< 1 % Vol. O ₂ /month @ air, averaged across 12 months
Operating Temperature:	10 to 40 °C
Pressure Range:	700 to 1250 hPa
Linearity Error:	≤ 3 % @ 100% O ₂ , applied for 5 min
Zero Offset:	≤ 0.3 Vol% O ₂ @ 100 % N ₂ , applied for 5 min
Repeatability:	± 1 % Vol. O ₂ @ 100 % O ₂ , applied for 5 min
Influence of Humidity:	- 0.03 % rel. O ₂ reading per % RH
Interferences:	according to DIN EN ISO 80601-2-55
Weight:	approximately 20 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	Part-No.	Housing Colour
O ₂ - Sensor M-08	41 00 12	white
O ₂ - Sensor M-08T	47 00 22	translucent

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