

O₂ - Medical Sensor

Type M-03



KEY FEATURES

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

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

Measurement Range:	0 to 100 Vol.% O ₂
Expected Operating Life:	~ 1,000,000 Vol.% h
Sensor Lifetime:	< 6 years @ ambient air, depending on application
Electrical Connector:	3.5 mm mono jack
Initial Output Signal:	13.0 to 16.5 mV @ dry ambient air
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 Voltage:	≤ 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
Recommended Load Resistor:	≥ 10 kOhm
Temperature Compensation:	NTC
Interferences:	according to DIN EN ISO 80601-2-55
Weight:	approximately 26 g
Material in Contact with Media:	PA, PPS, PTFE, stainless steel

STORAGE CONDITIONS IN UNOPENED ORIGINAL PACKAGE

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	Other Specifics
O ₂ - Sensor M-03	41 00 03	white	
O ₂ - Sensor M-03	41 02 03	white	with flow diverter
O ₂ - Sensor M-03B	41 01 03	white	Initial Output Signal: 16.0 to 20.5 mV
O ₂ - Sensor M-03T	47 00 13	translucent	

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