

Product Specification of:

O₂ - Medical Sensor / Type M – 25



.: KEY FEATURE .:

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. %
Expected Operating Life:	> 750,000 Vol. % h
Sensor Lifetime:	< 6 years @ ambient air
Electrical Connector:	straight miniature power jack
Initial Output Signal:	9.0 to 14.5 mV @ dry ambient air
Response Time t_{90}:	< 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:	≤ 200 μV in 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 21647 and ISO 7767
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
Humidity:	up to 100 % RH
Shelf Life:	< 6 months recommended

.: RELATED PRODUCTS .:

Product	Part-No.	Housing Colour	Other Specifics
O ₂ - Sensor M-25	41 00 20	white	
O ₂ - Sensor M-25T	41 01 20	translucent	
O ₂ - Sensor M-25T	41 02 20	translucent	with flow diverter
O ₂ - Sensor M-25F	41 03 20	white	flying wires

This data sheet is subject to change without prior notice. [M-25_Rev_012012.doc]

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