

**:: KEY FEATURE ::**

**Dual-cathode 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:	> 500,000 Vol. % h
Sensor Lifetime:	< 3 years @ ambient air, depending on application
Electrical Connector:	gold-plated slip rings
Initial Output Signal:	14 to 20 mV @ dry ambient air, load 600 Ohm
Difference Output Signal:	Difference between U1 and U2 is smaller than 10% of the greater value @ 20 % to 100 % O <sub>2</sub>
Response Time $t_{90}$ :	< 12 s
Drift:	< 1 % Vol. O <sub>2</sub> /month @ air, averaged across 12 months
Operating Temperature:	10 to 40 °C
Pressure Range:	700 to 1250 hPa
Linearity Error:	≤ 3 % @ 100 % O <sub>2</sub> , applied for 5 min
Zero Offset Voltage:	≤ 200 µV in 100 % N <sub>2</sub> , applied for 5 min
Repeatability:	± 1 % Vol. O <sub>2</sub> @ 100 % O <sub>2</sub> , applied for 5 min
Influence of Humidity:	- 0.03 % rel. O <sub>2</sub> 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:	< 4 months recommended

**:: RELATED PRODUCTS ::**

Product	Part-No.	Housing Colour	Other Specifics
O <sub>2</sub> - Sensor M-02	41 00 02	white	
O <sub>2</sub> - Sensor M-02L2	41 01 02	white	US-Version
O <sub>2</sub> - Sensor M-02T	47 00 09	translucent	
O <sub>2</sub> - Sensor M-02TL2	41 02 02	translucent	US-Version