

Product Specification of:

O₂ - Medical Sensor / Type M-07



.: KEY FEATURE .:

Gas sensor with a separate temperature compensation network.

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.%
Expected Operating Life:	> 500,000 Vol.% h
Sensor Lifetime:	< 3 years @ dry ambient air, depending on application
Electrical Connector:	4P4C Handset Modular Jack 4 Position (RJ11), Typ AMP
Initial Output Signal:	7.5 to 13.0 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:	≤ 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
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 (≤ 10 h)
Ambient Pressure Range:	700 to 1250 hPa
Humidity:	up to 100 % RH, non-condensing
Shelf Life:	< 6 months recommended

.: RELATED PRODUCTS .:

Product	Part-No.	Housing Colour
O ₂ - Sensor M-07	41 00 09	white
O ₂ - Sensor M-07T	47 00 12	translucent
O ₂ - Sensor M-07S	41 01 09	white
O ₂ - Sensor M-07ST	41 02 09	translucent

This data sheet is subject to change without prior notice. [M-07-Rev04-2019_0204.doc]