

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.

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|---|---|
| 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]