

Product Specification of:

O₂ - Scuba Diving Sensor / Type D-04



:: KEY FEATURE ::

Dual-cathode galvanic gas sensor with an extra water repellent head space.

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

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|---|--|
| Electrical Connector: | 3-pin Molex® |
| Measurement Range: | 0 to 100 Vol.% |
| Sensor Lifetime: | < 3 years @ ambient air |
| Expected Operating Life: | ~ 500,000 Vol.% h |
| Initial Output Signals: | 9.0 to 13.0 mV @ dry ambient air |
| Response Time t_{90}: | < 13 s |
| Drift: | < 1 % volume O ₂ / month @ air, averaged across 12 months |
| Linearity Error: | 600 to 1500 hPa O ₂ less than 3 % relative, 1500 to 2500 hPa O ₂ less than 5 % relative |
| Zero Offset Voltage: | < 200 μ V in 100% N ₂ , applied for 5 min |
| Operating Temperature: | 0 to 45 °C |
| Pressure Range: | 600 to 2500 hPa |
| (surrounding) | |
| Influence of Humidity: | -0.03 % rel. O ₂ reading per % RH |
| Recommended Load Resistor: | \geq 10 kOhm |
| Temperature Compensation: | NTC |
| Interferences: | none to He, H ₂ and CO |
| Weight: | approximately 25 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 |
| Ambient Pressure: | 600 to 1750 hPa |
| Humidity: | up to 100 % Rh |
| Shelf Life: | < 6 months recommended |

:: RELATED PRODUCTS ::

| Product | Part-No. | Housing Colour |
|------------------------------|----------|----------------|
| O ₂ - Sensor D-04 | 41 00 54 | white |

This data sheet is subject to change without prior notice. [D-04_Rev_012012.doc]

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