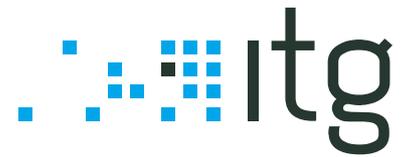


Product Specification of:

O₂ - Scuba Diving Sensor / Type D-05



:: KEY FEATURE ::

Galvanic gas sensor with an extra water repellent head space.

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

| | |
|---|--|
| Electrical Connector: | 3-pin Molex [®] , gold-plated |
| Measurement Range: | 0 to 100 Vol.% |
| Sensor Lifetime: | < 3 years @ ambient air |
| Expected Operating Life: | ~ 500,000 Vol.% h |
| Initial Output Signal: | 8.0 to 13.0 mV @ dry ambient air |
| Response Time t_{90}: | < 14 s |
| Drift: | < 1 % volume O ₂ / month @ air, averaged across 12 months |
| Linearity Error: | < 3 % @ 100 % O ₂ , applied for 5 min |
| Zero Offset Voltage: | < 150 μ V in 100% N ₂ , applied for 5 min |
| Operating Temperature: | 0 to 45 °C |
| Pressure Range: | 600 to 1750 hPa |
| 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 24 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 | Feature |
|-------------------------------|----------|----------------|--------------------|
| O ₂ - Sensor D-05 | 41 00 55 | white | |
| O ₂ - Sensor D-05F | 41 02 55 | white | Fast response time |

This data sheet is subject to change without prior notice. [D-05_Rev_01.doc]

page 1 of 1