Product Specification of:

O_2 - Scuba Diving Sensor / Type D-01

.: 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:	3.5 mm mono jack
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 12.0 mV @ dry ambient air
Response Time t_{90}:	< 12 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:	< 200 µV 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:	≥ 10 kOhm
Temperature Compensation:	NTC
Interferences:	none to He, H_2 and CO
Weight:	approximately 26 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	Other Specifics
O_2 - Sensor D-01	41 00 51	white	
O_2 - Sensor D-01H	41 01 51	white	Initial Output Signal: 13.0 to 17.0 mV

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