

Product Specification of:

## O<sub>2</sub> - Scuba Diving Sensor / Type D-12



### :: 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®
Measurement Range:	0 to 100 Vol.%
Sensor Lifetime:	< 3 years @ ambient air
Expected Operating Life:	~ 500,000 Vol.% h
Intital Output Signal:	22.0 to 28.5 mV @ dry ambient air
Response Time $t_{90}$ :	< 5 s
Drift:	< 1 % volume O <sub>2</sub> / month @ air, averaged across 12 months
Linearity Error:	< 3 % @ 100 % O <sub>2</sub> , applied for 5 min
Zero Offset Voltage:	< 150 µV in 100 % N <sub>2</sub> , applied for 5 min
Operating Temperature:	0 to 45 °C
Pressure Range:	600 to 1750 hPa
Influence of Humidity:	-0.03 % rel. O <sub>2</sub> reading per % RH
Recommended Load Resistor:	≥ 10 kOhm
Temperature Compensation:	NTC
Interferences:	none to He, H <sub>2</sub> 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
O <sub>2</sub> - Sensor D-12	41 00 62	white

*This data sheet is subject to change without prior notice. [D-12\_Rev\_012012.doc]*

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