

# O<sub>2</sub> - Scuba Diving Sensor

## Type D-40



### KEY FEATURE

Galvanic gas sensor with an extra water repellent head space, high signal stability and superior linearity over the entire range. All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa.

<b>Electrical Connector:</b>	2 pin miniature contact
<b>Measurement Range:</b>	0 to 100 Vol. %
<b>Sensor Lifetime:</b>	< 3 years @ ambient air
<b>Expected Operating Life:</b>	~ 500,000 Vol. % h
<b>Initial Output Signal:</b>	11.0 to 15.0 mV @ dry ambient air
<b>Response Time t90:</b>	< 15 s
<b>Drift:</b>	< 1 % volume O <sub>2</sub> / month @ air, averaged across 12 months
<b>Linearity Error:</b>	< 3 % @ 100 % O <sub>2</sub> , applied for 5 min
<b>Zero Offset Voltage:</b>	< 200 µV in 100 % N <sub>2</sub> , applied for 5 min
<b>Operating Temperature:</b>	0 to 45 °C
<b>Repeatability:</b>	± 1 % full scale
<b>Influence of Humidity:</b>	-0.03 % rel. O <sub>2</sub> reading per % RH
<b>Recommended Load Resistor:</b>	≥ 10 kOhm
<b>Temperature Compensation:</b>	NTC
<b>Weight:</b>	approximately 22 g
<b>Material in Contact with Media:</b>	PA, PPS, PTFE, stainless steel

### STORAGE CONDITIONS

<b>Temperature Range:</b>	recommended: 5 to 25 °C maximum: -20 to 45 °C
<b>Humidity:</b>	up to 100 % Rh
<b>Shelf Life:</b>	< 6 months recommended

### RELATED PRODUCTS

Product	Part-No.	Housing Colour
O <sub>2</sub> - Sensor D-40	41 01 55	white

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