

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 t90:	< 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 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 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

www.nrc-international.com



NRC International GmbH

Stentenberg Str. 63
D-51702 Bergneustadt

Phone +49(0)2261-500414
Fax +49(0)2261-500415

info@nrc-international.com