

O2 - Scuba Diving Sensor

Type D05R-LF

LEAD FREE / RoHS

KEY FEATURE

Lead-free galvanic gas sensor with an extra water repellent head space.

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

Electrical Connector:	3-pin Molex, gold-plated
Measurement Range:	0 to 100 Vol.%
Sensor Lifetime:	< 4 years @ ambient air, depending on application
Expected Operating Life:	> 1,000,000 Vol.% h
Initial Output Signal:	9.0 to 12.5 mV @ dry ambient air
Output Signal Range:	3 to 15 mV @ dry ambient air
Response Time t90:	< 8 s
Drift:	< 2 % volume O2 / month @ air, averaged across 12 months
Linearity Error:	< 3 % @ 100 % O2, applied for 5 min
Zero Offset Voltage:	< 150 uV in 100 % N2, applied for 5 min
Operating Temperature:	0 to 45 deg C
Influence of Humidity:	-0.03 % rel. O2 reading per % RH
Recommended Load Resistor:	>= 10 kOhm
Temperature Compensation:	NTC on sensor PCB
Weight:	approximately 23 g
Interferences:	none to He, H2 and CO
Material in Contact with Media:	PA, PPS, PTFE, NBR, stainless steel

STORAGE CONDITIONS

Temperature Range	recommended: 5 to 30 deg C; maximum: -20 to 50 deg C
Humidity	up to 100 % RH
Shelf Life	< 6 months recommended

APPLICATION / RELATED PRODUCTS

Application: Designed for compatible rebreather systems and CCR applications.

Related: D05-LF; D05R-LF

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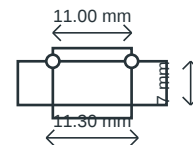
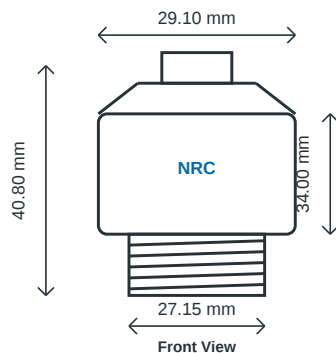
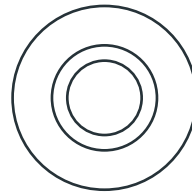
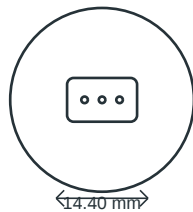
Technical Drawing of:

LEAD FREE

O2 - Diving Sensor D05R-LF

TECHNICAL DRAWING

Sensor	Part number	Cap	Housing	Threaded ring	Pin 1 / Pin 2 / Pin 3
D05R-LF	410255	white	white	white	minus / minus / plus



*thread is similar to M16x1 and 5/8-24 UNEF

Tolerance Diameter +/- 0.3 mm, Tolerance Linear +/- 0.5 mm, Dimension unit: metric

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NRC

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