

# O2 - Scuba Diving Sensor

## Type D05-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:                | < 6 years @ ambient air                                  |
| Expected Operating Life:        | ~ 1,000,000 Vol.% h                                      |
| Initial Output Signal:          | 8.0 to 13.0 mV @ dry ambient air                         |
| Response Time t90:              | < 14 s                                                   |
| Drift:                          | < 1 % 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                                                      |
| Interferences:                  | none to He, H2 and CO                                    |
| Weight:                         | approximately 24 g                                       |
| Material in Contact with Media: | PA, PPS, PTFE, 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:** For compatible gas analyzers only. Not intended for rebreather use.

**Related:** D05-LF; D-05F

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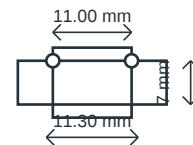
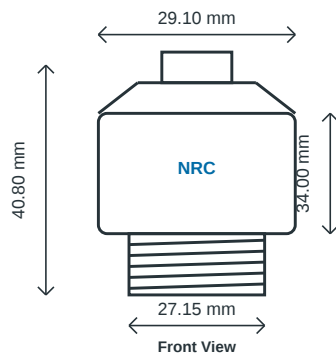
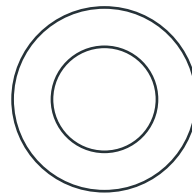
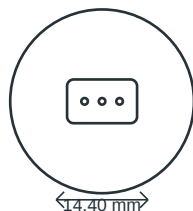
# Technical Drawing of:

LEAD FREE

## O2 - Diving Sensors

### TECHNICAL DRAWING

| Sensor | Part number | Cap   | Housing | Threaded ring | Pin 1 / Pin 2 / Pin 3 |
|--------|-------------|-------|---------|---------------|-----------------------|
| D-04   | 410054      | white | white   | white         | plus / minus / plus   |
| D05-LF | 410055      | white | white   | white         | minus / minus / plus  |
| D-05F  | 410255      | white | white   | white         | minus / minus / plus  |
| D-12   | 410062      | white | white   | white         | minus / minus / plus  |
| D-41   | 410162      | 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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