

# DAVITEQ OXYGEN O2 GAS SENSOR 0-30%, SERI-4

## KEY FEATURES

- Fast equilibration time
- Long-Life sensor with no consumable parts and lead-free (RoHS compliant)

## APPLICATIONS

- Oxygen Monitoring in Diffusion Mode
- Continuous Air Quality Monitoring
- Safety and Environmental Control

## SENSOR SPECIFICATION

| MEASURING SPECIFICATION                |   |
|--|---|
| Sensor type                            | Daviteq Seri-4 electrochemical gas sensor |
| Nominal range                          | 0-30%                                     |
| Maximum overload                       | 100%                                      |
| Filter                                 | come with the main device                 |
| Resolution                             | 0.1%                                      |
| T90 response time                      | < 28s (via filter)                        |
| Typical Baseline Range (20°C)          | < 0.1% in pure N2                         |
| Repeatability                          | < 2% of reading                           |
| Accuracy                               | +/- 5% of reading                         |
| Zero Stability                         | 0 .. 0.1 % in pure Nitrogen, 20oC         |
| Temperature compensation               | Yes                                       |
| WORKING CONDITIONS                     |   |
| Relative humidity range                | 15 % to 90 % RH non-condensing            |
| Temperature range                      | -40 °C to 50 °C                           |
| Pressure range                         | Atmospheric ± 10%                         |
| SENSOR LIFETIME                        |   |
| Expected Operation Life                | 3 years in the air                        |
| Expected Long-Term Output Drift in air | < 1.33 % of reading loss per year         |

## CROSS SENSITIVITY DATA

| Interfering Gas | Concentration (ppm) | Reading (%) |
|-----------------|---------------------|-------------|
|-----------------|---------------------|-------------|

|      |      |       |
|------|------|-------|
| C2H4 | 1000 | 0     |
| CO   | 2000 | 0.05  |
| H2   | 1000 | 0.01  |
| H2S  | 500  | -0.02 |
| SO2  | 200  | -0.01 |

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