



## Orbisphere GA2800 ATEX Oxygen Sensor (EC), Hastelloy, 100 bar, FKM/FPM O-rings

**Product #:** GA280E-HVS  
**AED Price:** Contact Hach

### Highly accurate and customisable oxygen measurement for all environments

The Orbisphere GA2800 EX oxygen ( $O_2$ ) Electrochemical (EC) sensor is designed for process monitoring as well as laboratory analysis in the liquid or gas phases across.

With its large measuring possibilities the Orbisphere GA2800 EX  $O_2$  EC-sensor can be used for a wide range of harsh environments from chemical or oil to petrochemical plants where oxygen measurement is critical.

A small residual signal with unrivalled accuracy ( $\pm 0.1$  ppb) is made possible by the exclusive sensor design. Different pre-mounted membrane kits are available to fulfill any particular process requirements and  $O_2$  measurement ranges required.

The GA2800 EX  $O_2$  electrochemical sensor is mechanically resistant to pressure up to 100 bar due to Hastelloy material and FKM/FPM O-rings.

### Easy and fast maintenance

Traditional cleaning processes can take more than thirty minutes to complete. The GA2400 and GA2800 EX come with an innovative cartridge system that contains everything needed to complete membrane and electrolyte solution change in less than 5 minutes.

### Low level oxygen measurement and unrivalled accuracy

The Hach Orbisphere GA2400 and GA2800 EX utilise an electrochemical oxygen sensor with a lower detection level of 0.1 ppb and unrivalled highly accurate readings of  $\pm 1\%$ . This feature allows users to ensure control of low oxygen levels, for product and equipment integrity and avoiding corrosion.

### Robust for harsh environments

The robust stainless steel or Hastelloy design makes the GA2400 and GA2800 EX sensor ideal for the most demanding applications. ATEX certification comes standard in all GA2800 units, making the sensor especially suitable for harsh chemical environments.

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## Specifications

|           |   |
|-----------|---|
| Accuracy: | Accuracy = Trueness (ISO 57251)   |
|           | 2935A-A: The greater of $\pm 1\%$ of reading or $\pm 10$ ppb, or $\pm 20$ Pa  |
|           | 2952A-A: The greater of $\pm 1\%$ of reading or $\pm 2$ ppb, or $\pm 5$ Pa  |
|           | 2956A-A: The greater of $\pm 1\%$ of reading or $\pm 0.1$ ppb <sup>1</sup> , or $\pm 1$ ppb <sup>2</sup> , or $\pm 0.25$ Pa |
|           | 29552A-A: The greater of $\pm 1\%$ of reading or $\pm 2$ ppb, or $\pm 5$ Pa   |

<sup>1</sup> Accuracy is  $\pm 0.1$  ppb for 410, 510, 362x, 360x and 3655 instruments

|                           |  |
|---------------------------|--|
|                           | <sup>2</sup> Accuracy is ± 1 ppb for 366x and 3650 instruments   |
| Body Material:            | Hastelloy  |
| Certifications:           | CE, Ex II 1 G, Ex ia IIC T6  |
| Flow rate:                | Recommended flow rate in flow chamber  |
|                           | 2935A-A: 25 mL/min   |
|                           | 2952A-A: 50 mL/min   |
|                           | 2956A-A: 180 mL/min  |
|                           | 29552A-A: 50 mL/min  |
| Material:                 | O-Rings: FKM/FPM   |
| Measuring range:          | Range at 25 °C   |
|                           | 2935A-A: 10 ppb - 400 ppm or 20 Pa - 1,000 kPa   |
|                           | 2952A-A: 1 ppb - 80 ppm or 5 Pa - 200 kPa  |
|                           | 2956A-A: 0.1 ppb - 20 ppm or 0.25 Pa - 50 kPa  |
|                           | 29552A-A: 2 ppb - 80 ppm or 5 Pa - 200 kPa   |
| Model:                    | GA2800 EX  |
| Pressure range:           | 100 bar  |
| Pressure resistance:      | 40 bar minimum with default PPS collar (100 bar with stainless steel collar)   |
| Protection class:         | IP66   |
| Response time:            | Response time at 25 °C for a 90% signal change   |
|                           | 2935A-A: 2.5 min   |
|                           | 2952A-A: 38 s  |
|                           | 2956A-A: 7.2 s   |
|                           | 29552A-A: 90 s   |
| Sensor material:          | Hastelloy  |
| Temperature compensation: | -5 - 60 °C   |
| Temperature resistance:   | -5 - 100 °C  |
| Warranty:                 | 6 months   |
| Weight:                   | 0.3 kg   |
| Wetted Materials:         | Hastelloy  |
|                           | No O-rings are in contact with the sample  |
| What's included?:         | Oxygen Sensor (GA280E-HVS), incl. plastic screw-on storage cap for sensor head protection; protection cap without grille (33051-S0); protection cap with grille (33051-SP) |

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