Orbisphere K1100 LDO Sensor Kit, 0-2000 ppb, 410 controller, 6 mm flow chamber, panel mount

Product #:	**K1100-KTO-P-MET**
ZAR Price:	Contact Hach

The first maintenance-free optical oxygen sensor for power plants.

Pre-configured Kit containing high accuracy Luminescent Dissolved Oxygen sensor K1100-S00, controller 410K/P1C00000, 3 m cable, 6 mm flow chamber. Specially designed for power plants (non-nuclear).

The Orbisphere K1100 optical sensor together with the Orbisphere controller offers a new way of monitoring oxygen in power plants. Orbisphere sensors set the industry standards for oxygen measurement by offering peace of mind to every water chemist.

One calibration per year
One zero point calibration per year is all that is needed with the K1100 sensor. Designed for minimal drift, luminescent technology makes the K1100 sensor the most stable sensor with the longest calibration interval in the industry.

No membranes = two minutes of maintenance
With no membranes to replace and no electrolyte solution to replenish, the K1100 requires only two minutes of maintenance per year. Corrosive or hazardous chemicals are not required, making the annual task faster, easier and safer without reducing measurement precision.

Low cost retrofit
The complete system consists of a controller, a flow chamber, and the K1100 Luminescent Dissolved Oxygen Sensor. The sensor is compatible with Hach Orbisphere 28 mm flow chambers, eliminating the need for engineering changes. Installation is fast and easy and does not require special preparation.

A new level of confidence
The K1100 optical sensor is the first to use luminescent measurement technology to measure both ppb and ppm oxygen levels in power plants. Since 1978, Hach Orbisphere sensors have set the industry standard for oxygen measurement by delivering confidence to every water chemistry manager. The K1100 maintains this tradition and offers significant operating and cost benefits.

Specifications

Accuracy:	± 0.8 ppb or 2 % whichever is greater
Ambient Temperature:	-5 - 50 °C
Analogue Outputs:	3 Smart 0/4 to 20 mA (500 Ohms) programmable as linear or tri-linear, configurable to send diagnostics or alarm informations.
Application:	Power
Calibration:	Single point zero calibration with standard 99.999% nitrogen (quality 5.0) or equivalent oxygen free gas
Certifications:	2004/108/EC - EN 61326-1
Communication Capabilities:	3 x 0/4-20 mA; RS485; Ethernet
Controller:	Panel
Controller Options:	410 Mono-Channel Controller

Display Resolution:	0.1 ppb
Lowest Detection Limit :	0.6 ppb
Mounting:	6 mm flow chamber
Parameter:	Oxygen
Power requirements (Voltage):	100 - 230 VAC
Range:	0 - 2000 ppb dissolved O_2 (DO)
Relays:	Measurement board: 3 measurement alarm relays (1A-30 VAC or 0.5A-50 VDC), configurable to send diagnostics information. Main board: 1 system alarm relay (1A-30 VAC or 0.5A-50 VDC).
Repeatability:	± 0.4 ppb or 1 % whichever is greater
Reproducibility:	± 0.8 ppb or 2 % whichever is greater
Response time:	(90%) <10 s (gas phase); <30 s (liquid phase)
Sample Flow Rate:	50 - 300 mL/min
Sample Pressure:	1 - 20 bar absolute (14.5 - 290 psi)
Sample Temperature:	-5 - 50°C
Sensors:	K1100 LDO
Storage conditions:	-5 °C - 100 °C
Temperature Range:	Accurate from -5 - 50 °C Resistant - temperature from -5 - 100 °C
Warranty:	12 months
Weight Sensor:	0.6 kg
What's included?:	Includes 410 panel mount controller, K1100 LDO sensor (low level), 3 m sensor cable, stainless steel flow-chamber with 6 mm fittings

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