



AIM1000 Zirconia Oxygen Analyzer

OPTIMUM COMBUSTION REDUCES YOUR FUEL BILL

Optimum combustion reduces your fuel bill and helps the whole world and future generations by reducing harmful greenhouse gas emissions. The current high cost of fuel has helped reduce the payback period for the cost of installing oxygen monitoring and air/fuel ratio control. It makes more sense to consider the benefits of installing an oxygen monitoring system on your combustion process.

The oxygen transmitter is suitable for gaseous oxygen measurements in a variety of processes. These are some of those processes that are designed for:

TECHNICAL DESCRIPTION

The AIM1000 oxygen analyzer package comprises a probe, interconnecting cable and the display & control terminal GDC-02-ZOA and was developed for use in small to medium size boilers for commercial and industrial applications.

All components and materials used have been well proven from Delta-Phase's many years experience in large boiler applications, such as in power stations, incinerator plants etc. resulting in long working life and low maintenance.

Delta-Phase's gold brazing technology ensures a gas-tight sensor, its large cell surface area contributes to the increased O₂ measuring accuracy and fast response from the oxygen analyzer package.

The display & control terminal GDC-02-ZOA is contained in a rugged sheet metal housing for direct mounting in the boiler house. The OLED display has clear text with keypad selectable language options, providing easy operation for end users in other countries. Installation time is reduced to a minimum with electrical cable connections simplified by use of quick disconnect plug & socket.

Boilers	Power Generation Package Black Liquor Recovery	Kilns & Furnaces	Rotary Line Cement Glass Ceramic Brick
Iron & Steel	Heating Furnaces Coke Ovens Soaking Pits	Nitrogen Purity	Generator
Aluminum	Potlines Holding Furnaces	O₂ Enrichment	Generator
Incinerators	PVC Medical Waste Toxic Waste	Food Packaging	Continuous Monitoring



If your particular process is not listed above then we would love to hear from you. There is a good chance that has an appropriate product for your process.

This is the sixth generation of zirconia oxygen transmitters designed and manufactured by Delta-Phase. This oxygen measurement is based on the world's strongest zirconia sensor that was developed by the CSIRO's Department of Materials Science.

This sensor, combined with the state-of-the-art transmitter, provides the perfect solution for your gaseous oxygen measurement.

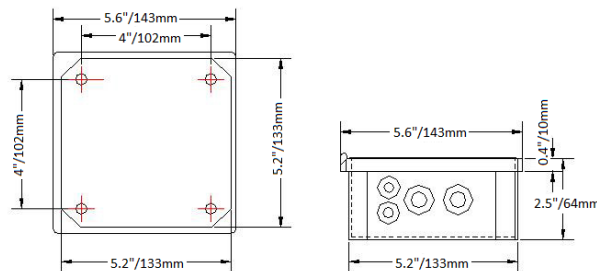
Call your nearest distributor, or Delta-Phase, to obtain expert advice for your particular application. We have been dedicated to designing and manufacturing the most reliable zirconia oxygen measuring instruments for more than 10 years.



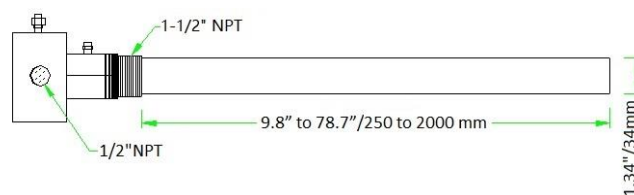
SPECIFICATIONS

Zirconia Oxygen Sensor AIM1000	
Application	Combustion flue gases below 1652 °F (900 °C)
Range	0~100% O ₂ Adjustable
Accuracy	± 1% of the actual oxygen reading
Repeatability	0.5%
Temperature Range	32 to 1652 °F (0 to 900 °C)
Probe Length	9.8" to 78.7" (250 to 2000 mm)
Process Connection	2" NPT or 150# Flange
Electrical Connection	Weather-proof plug-in connector or optional screw terminals.
Heater	Yes
Response Time	Typically < 4 sec
Reference Gas	Air 50 cc/min. supplied by transmitter
Ref. Air Connection	1/4" tube
Calibration Check Gas Flow	2 L/min
Calibration Check Gas Connection	1/8" FNPT
Material	Stainless Steel
Particulate Filter	Removable Titanium 30 µm standard, 15 µm Optional
Protection	IP65
Display & Control Terminal GDC-02-ZOA	
Operating Temperature	-40 to 158 °F (-40 to 70 °C)
Display	OLED screen
Output	4 to 20mA × 2, Max 600Ω
Digital Interface	RS485 Modbus RTU
Power Supply	90 to 240VAC, 50/60Hz
Protection	IP66

DIMENSION



GDC-02-ZOA



AIM1000 Sensor

