

SuperOx

In situ high temperature oxygen sensor monitors/controls combustion efficiency



SuperOx Applications

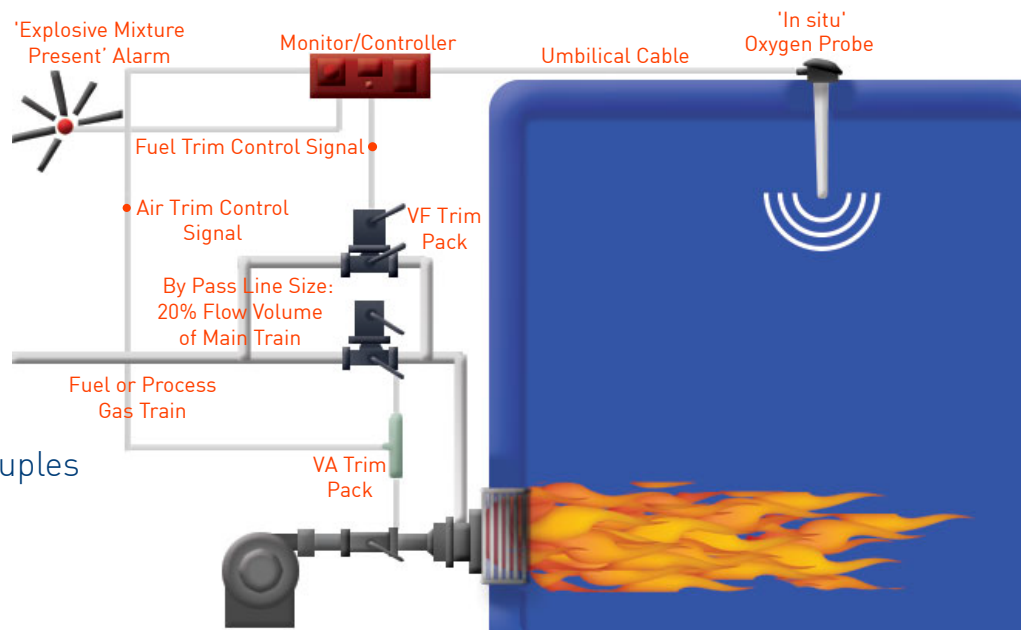
- Direct-fired furnaces (reheat, annealing, tunnel)
- Glass furnaces (side-fired, end-fired, float, container, and fiberglass)
- Power generation - boilers (gas-fired and coal-fired)
- Ceramic and brick kilns
- Petrochemical - after-burners, incinerators, package boilers, sulfur burners

SuperOx Specifications

- Useful O₂ range: 10⁻²⁶ to 20.95% (air reference)
10⁻²⁵ to 100.0% (pure O₂ reference)
- Temperature range: 1150 - 3000°F (620 - 1650°C)
- Sensor impedance: less than 20 K ohms @ 1700°F
- Sensor output: 0 to 1250 mVDC
- Response time: less than 1 second
- Sheath material: 99% Alumina or Silicon Carbide

SuperOx Benefits

- Field performance can be confirmed using external "verification" port
- Cooling air option for high ambient temperature applications
- Available in three standard lengths: 18" (457mm), 26" (660mm), and 36" (915mm)
- "B", "S", and "R" thermocouples



Combustion Efficiency Solutions



**Model 1500 VRO 9120
Oxygen Control System
and Video Recorder**

Reference
Air System

Cooling
Air System

4-20mA
Outputs

ETHERNET
TCP/IP

Control
Output

RS485
Modbus

Video
Recorder

Description	Sheath Material	Insertion Length	Part Number
SuperOx - "B" T/C	Alumina	18"	1827200
SuperOx - "B" T/C	Silicon Carbide	18"	1837200
SuperOx - "B" T/C	Alumina	26"	1825200
SuperOx - "B" T/C	Silicon Carbide	26"	1835200
SuperOx - "B" T/C	Alumina	36"	1826200
SuperOx - "B" T/C	Silicon Carbide	36"	1836200
9120 PVT & Controller			13518
24 VDC Power Supply			31135
Digital Display			31286
AC20 Oxygen Controller			31069
Ref Air / Cooling Air	Single Zone		13017
Ref Air / Cooling Air	Dual Zone		13368
Ref Air Only	Dual Zone		13559
Model 1500 VRO			13565



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