

SuperOx

In situ high temperature oxygen sensor monitors/controls combustion efficiency



SuperOx Applications

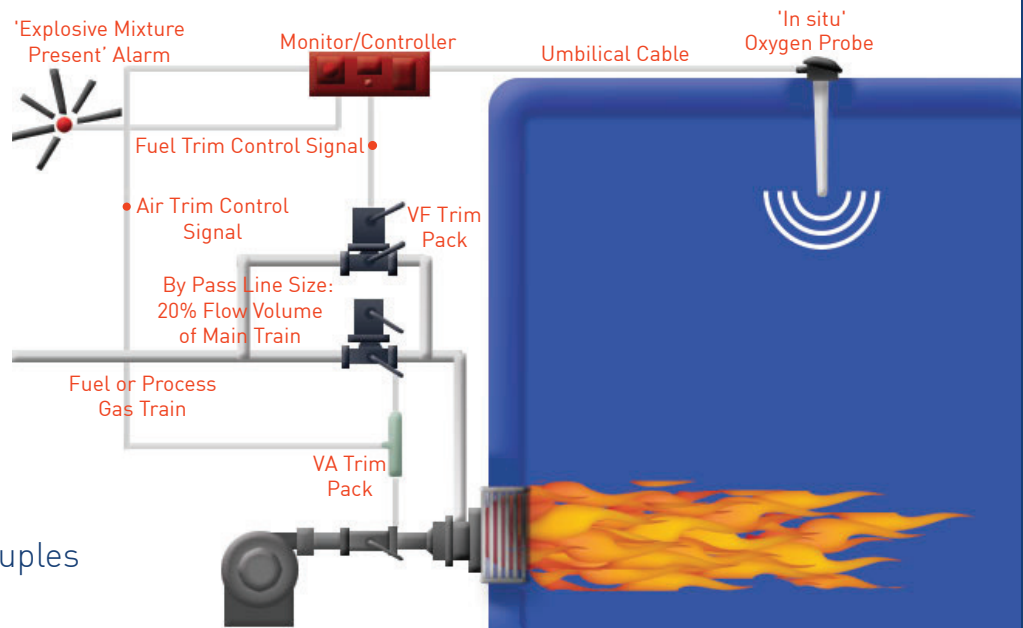
- Direct-fired furnaces (reheat, annealing, tunnel)
- Glass furnaces (side-fired, end-fired, float, container, and fiberglass)
- Power generation - boilers (gas-fired and coal-fired)
- Ceramic and brick kilns
- Petrochemical - after-burners, incinerators, package boilers, sulfur burners

SuperOx Specifications

- Process variable range: $8.77E^{-23}$ to 20.9% (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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