

Zirconia **OXYGEN ANALYZER**

Combustion Control









Dynamic response to Oxygen

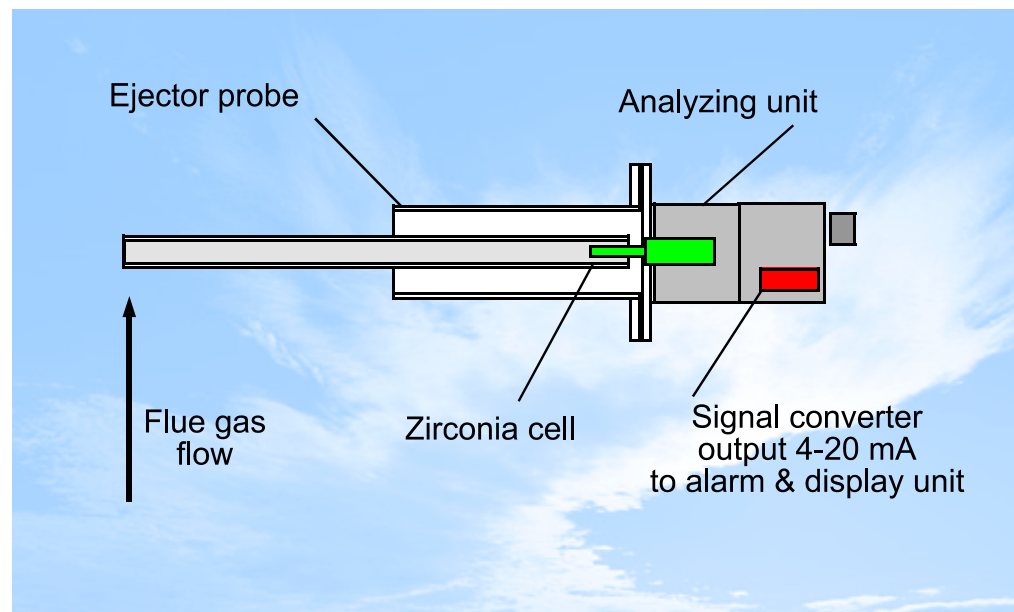
The SBS Oxygen Analyzer, model SBS₃₀₀₀, is used to monitor and control the oxygen concentration in flue gases, for example in boiler uptakes. Proven technology and outstanding simplicity insure reliable combustion management and stable and optimal O₂ concentration control.

The SBS₃₀₀₀ Analyzer can be arranged and configured to meet almost any type of application. The basic system consist of the ejector-probe, analyzing unit and analog display. A flow control, alarm monitor, filter-unit, data locking and combustion control units may be added as required by the application.

The SBS₃₀₀₀ Oxygen Analyzer is designed to manage the combustion parameters in an economical way. A true aid for effective pollution control.

Key Features:

-  **Easy to install**
-  **User friendly**
-  **Long-time stability**
-  **High-speed dynamic response**
-  **Alarm unit easy to configure**
-  **Low priced**
-  **Low maintenance cost**
-  **Self-check of alarm failures**



The SBS₃₀₀₀ – A true aid for effective pollution control and management of the combustion

OXYGEN ANALYZER



Specifications

Analyzing Unit & Panel:

Measurement system
Measurement range
Specification area
Power supply
Consumption
Output cell
Output signal converter
Response time
Zero adjustment
Span
Dimensions

Enclosure
Weight

Type: SBS 3000

Zirconia type cell
0,2 to 21 %
@ 0 to +500° C
110 to 230 V AC; 50 / 60 Hz
40 VA steady after warm up
100 mV to -10 mV
4-20 mA
2 sec. With flow rate 0,7 m x sec⁻¹
Probe calibration, fixed; panel output adjustable
Probe calibration, fixed; panel output adjustable
Probe: OD 100 mm x 200 mm deep
Panel: 200 mm x 300 mm x 155 mm
IP 66 Steel housing
Probe: Approx. 2,5 kg
Panel: Approx.8 kg

Oxygen Indicators:

Construction
Scale
Dimensional details (Panel cutout)

Moving coil instruments
Oxygen scale: 0 – 20.9% O₂
(H x W x D): 96 x 96 x 63 mm (92 x 92 mm)

Probe Cable:

Connection analyzing unit to panel

Multi core cable 5 meter 5 x 1 mm² with connectors

Injector Probe:

Sampling tube
DP flow tube
Connection flange
Operating temperature

Carbon steel OD 60 mm
SS AISI 304 OD 30 mm
Special SS flange OD 100 mm
0 to +500 °C (optional up to +800 °C)

*Alarm Monitor:

Specification area
Power supply
Consumption internal
Response time
Alarm delay
Relay voltages
Max. relay current
Display
Relay function
Dimensions (panel cutout)

@ -20 to +60 °C
230 V AC +/- 10%, 50 / 60 Hz
4 VA
1-60 sec. (Programmable)
1-99 sec. (Programmable)
Max. 250 V AC
2 A
0 to 21 % O₂ (Programmable)
Energized during normal operation
H x W x D: 48 x 96 x 120 mm (44,5 x 91,5 mm)

*Fast-response filters:

Filter options data

Available upon request

*Recorders or data locking:

Data

Available upon request

*Communication:

Data

Available upon request

*Optional items

Specifications subject to changes without notice