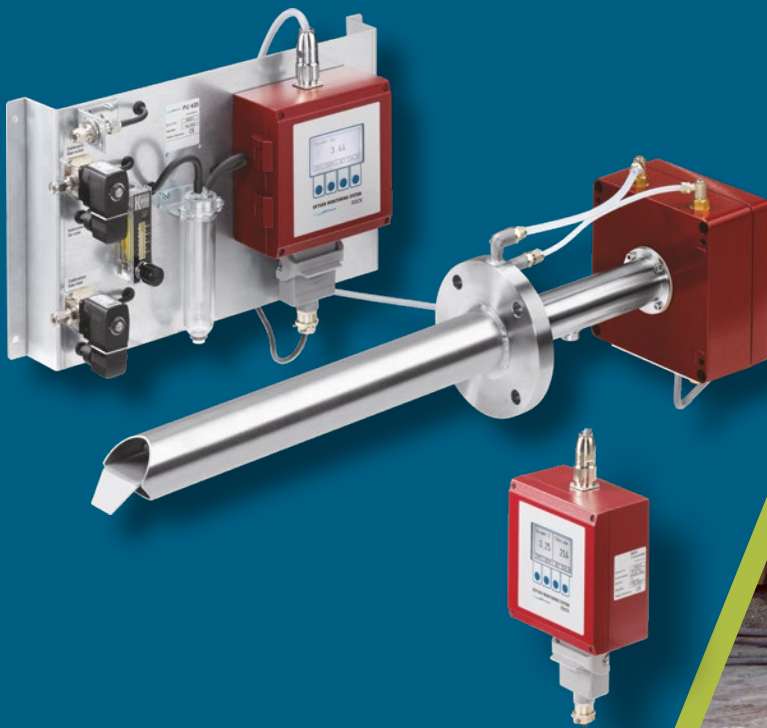


PRODUCT BROCHURE

O2CX

**IN-SITU COMBUSTION OPTIMIZATION MONITOR
Flue Gas Oxygen & Combustibles Transmitter**



Until now, in-situ measurements, used to tune boilers, were limited to O₂ only. Now, there is a compact in-situ probe for combustion optimization to measure both CO_e and O₂ simultaneously providing engineers an improved tool to lower excess air to previously unachieved levels, saving fuel costs.

- Real-time measurements
- Stable, long-life Zirconium sensor
- Low maintenance with easy access to sensors for fast and simple service
- Unique, heated solid electrolyte combustibles sensor
- Combustion optimization

In-Situ O₂/CO_e Combustion Monitor

In-situ, real-time readings for optimal fuel efficiency of boilers, furnaces, and kilns, with fast and simple service ability, and all at a tremendous value.

The COSA Xentaur O2CX is the ideal choice to optimize fuel efficiency on most combustion sources. It has a number of significant advantages over other oxygen transmitters.

The addition of our unique combustibles sensor allows the process to safely operate with a lower Excess Air ratio, which translates in to higher fuel efficiencies.

The O2CX Zirconium Oxide O₂ sensor has great accuracy and sensitivity below 10% oxygen and does not require dilution air like other competitors utilizing a Pellister sensor.

Zirconium Oxide O₂ Sensor

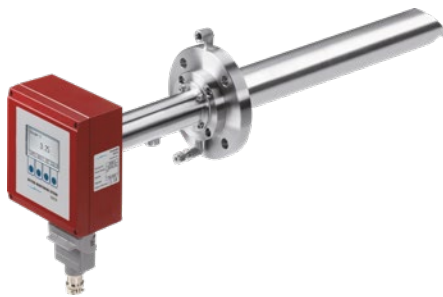
- Long life
- Fast response
- High stability
- Low energy consumption

Heated Solid Electrolyte CO_e Sensor

- High accuracy/sensitivity
- Stable even to 1% oxygen
- No dilution air required
- Fast response
- Long life

Other Features

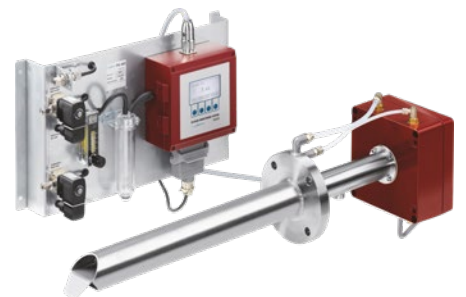
- Easy access to sensors
- Suitable for high dust/particulate applications
- High temperatures to 3100°F
- Probe lengths to 6'
- Optional auto calibration



O2CX Compact Model



O2CX Remote Control Model



O2CX Remote Control Model with AUTO-CAL



PU 420 AUTO-CAL Module for long term stability

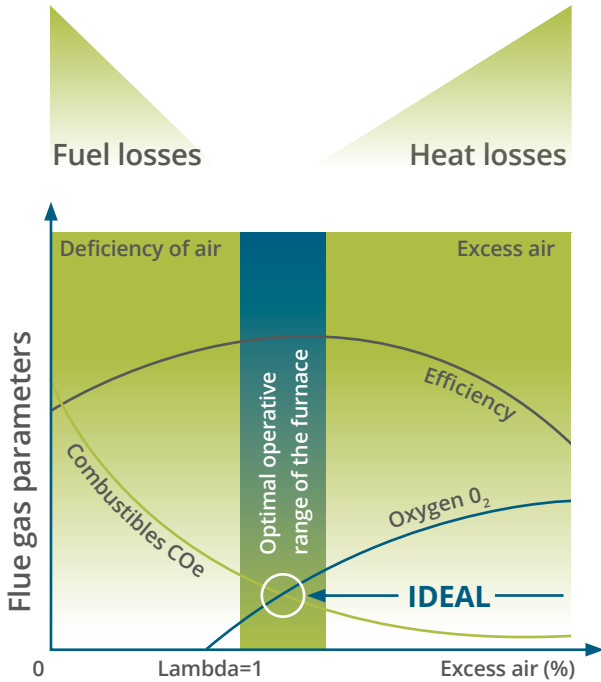


O2CX High Temperature Model

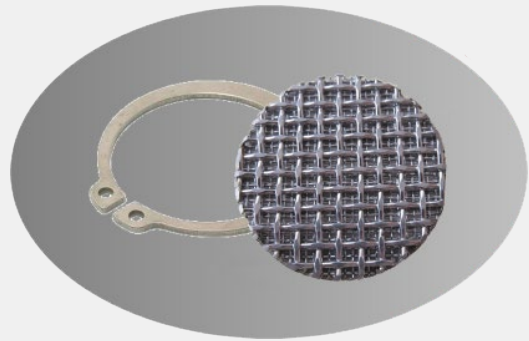
Save Energy & Fuel Consumption

Large Power Plants...Save millions \$ a year

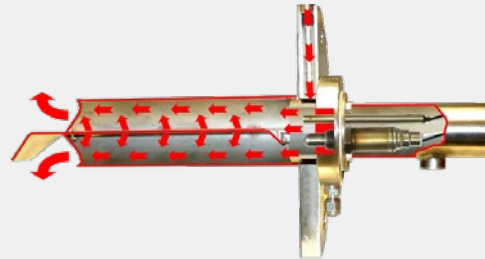
Combustion-optimization diagram:



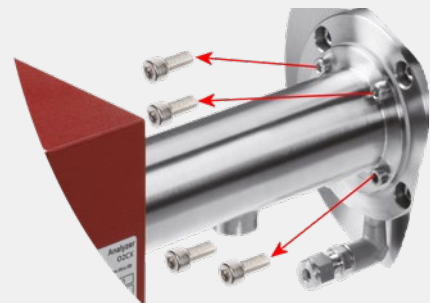
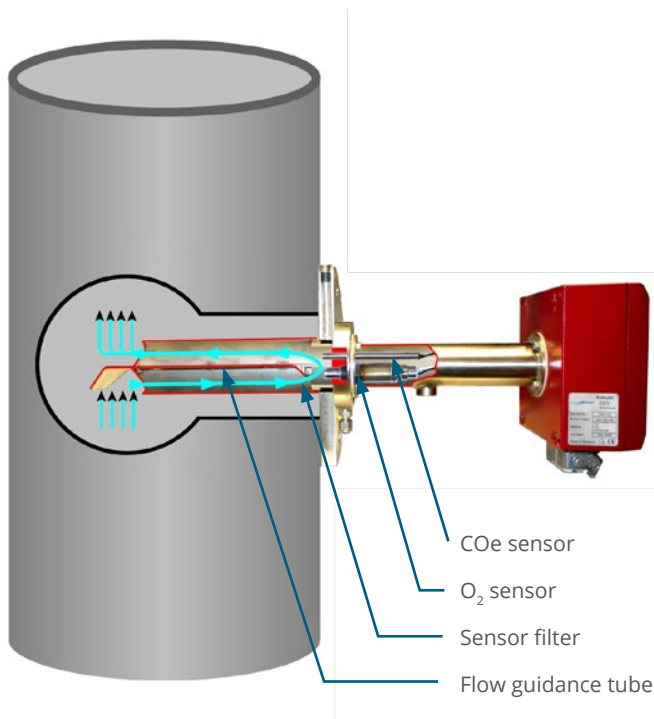
Minimal tools are needed to change sensors



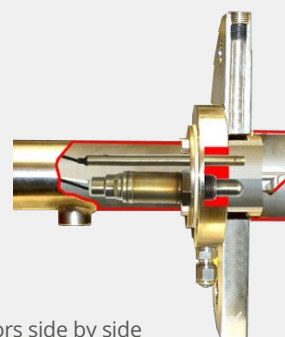
Sensors are protected with sintered metal filter



Purging system for particulate/dust applications



Only 4 screws to access the sensors



O_2 and COe sensors side by side

Technical Specifications

Measuring range:	0.1 to 25.0% Vol.-% O ₂ 0 to 1,000 ppm CO _e (option combustibles measurement)
Accuracy:	O ₂ : ±0.2% or ± 5% of reading, whichever is larger CO _e : ±50 ppm or ±10% of reading, whichever is larger
Flange:	ANSI flange: Ø 230 mm / probe tube: Ø 60 mm, up to max. 13' (4.0 m) length or flange DN80 PN16
Flange:	DN65 PN6 flange: Ø 216 mm / probe tube: Ø 60 mm up to max. 13' (4.0 m) length or flange DN80 PN16
Flange temperature:	Min. +160 °F (71 °C) to max. +300 °F (149 °C) (condensation at the flange must be avoided)
Response time T90:	<10 seconds
Analog outputs:	2 x current loop 4-20 mA, with galvanic isolation linearized for both 0 to 25% O ₂ and 0 to 1,000 ppm CO _e (user definable settings in 0.5% steps are possible)
Digital output:	Galvanic isolated RS 485 (with Modbus protocol)
Power supply:	18 to 24 Vdc (for model O2CX), 90 to 100 W, 100 to 240 Vac (for model O2CX RT and HT) max. 100 W
Electronic of transmitter:	With local microprocessor, display and 4 push-buttons
Calibration inlet:	With test gas fitting for 6/4 mm tube cal. gas supplied manually or automatically by pneumatic unit PU 420
INLET – Purging System for high particulate/dust application:	Min. 87 PSI – 116 PSI (6 – 8 bar) compressed air with quick connector for 8 mm tube
Ambient temperature of electronics:	-70°F to 130°F (-57°C to 55°C)
Enclosure:	Die cast aluminum, 6.3" x 6.3" x 2.4" and probe tube, Ø 2"
Protection class:	IP 65
Weight:	7.7 lbs (3.5 kg) (without probe and flange)

Options

Options Include:	Remote or compact transmitter, optional blow down feature, customized probe option, O ₂ and optional CO _e
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CO_e Measurement

PROBE TUBE AND SENSOR CHAMBER BLOW BACK SYSTEM. Compressed air is required!!

Blow back timing and duration are user definable. Recommended for applications with high particulates, such as coal-fired power plants.

Automatic calibration for span and offset, using pneumatic unit PU 420.

Application with high temperatures up to approx. 3,100°F (1,705°C) with ceramic tube and ejector (model HT).

Remote control and display unit (max. cable length = approx. 33' (10 m) – model RT) for applications with ambient temperature >120°F (49°C)

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Process Insights' products and solutions deliver innovative and differentiated analysis and measurement solutions and technologies that add high value to our customers and protect the environment.

Our commitment is to deliver smart and affordable innovation that optimizes process, improves safety, and transforms our world.

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