

Combustion Control Solution for Commercial and Small Industrial Boilers



CHALLENGE

With increasing environmental requirements, users of commercial and small industrial boilers are faced with escalating compliance demands, which in turn, increase the need for measurement and control. Some do not currently measure combustion flue gas, leaving themselves open to regulatory as well as energy inefficiency problems. Those who are measuring, may not be aware of available technologies that offer a higher degree of accuracy and longer sensor life.

OUR SOLUTION

The Rosemount™ CX1100 In-Situ Oxygen Transmitter is a combustion control solution designed to improve boiler efficiency and meet environmental regulatory requirements for small and midsize boiler users, and offers ease of use, economy, and simplified maintenance. Featuring the patented Rosemount oxygen sensing zirconia cell, it offers the same sensor reliability found in large industrial technology, but is built to the requirements of users in applications, such as, food and beverage, manufacturing, and commercial and institutional power and heating.

HOW IT WORKS

- Zirconia sensing cell and the all-welded probe improve reliability by eliminating leak points
- Does not use piped reference air which keeps installation and maintenance costs low
- Offers an easy-replacement design that enables simplified service
- Remote transmitter architecture allows for fast configuration and calibration that includes a large, multi-function display with diagnostics

WHAT IF...

...boiler efficiency could be improved with a high-quality combustion control solution designed without the cost and complexity?

... combustion flue gas measurement could be achieved with a system that offers ease of use and simplified service and maintenance?



Key Innovations

- Rosemount patented zirconia sensing cell
- Robust all-welded construction
- No piped reference air
- Rated to IP66 and Type 4x

For more information visit:
Emerson.com/RosemountGasAnalysis
or contact your local Emerson™ Sales Representative



Combustion Control Solution for Commercial and Small Industrial Boilers

Specifications

Measurement Type	Oxygen, Zirconia
Repeatability	±1 % of reading or 0.1 % of O ₂ whichever is lower
Measurement Range	0 to 23 %
Response Time	Up to 10 sec T90
Process Temperature Range	Up to 752° F (400 °C)
Ambient Temperature	-4 to 158 °F (-20 to 70 °C)
Dimensions	Probe Length Options: 19.7 in (0.5 m), 3.3 ft (1.0 m), 6.6 ft (2.0 m)
Output Signal	4–20 mA

Associated Products

**Rosemount™ 6888
In Situ Oxygen Transmitter**



**Rosemount™ Oxymitter™ 4000
In Situ Oxygen Transmitter**



Global Headquarters

Emerson Automation Solutions
6021 Innovation Blvd
Shakopee, MN 55379
USA

- ☎ Toll Free + 800 854 8257
- ✉ GAS.CSC@Emerson.com
- 🌐 www.Emerson.com/RosemountGasAnalysis

Consider it Solved.

Emerson Automation Solutions supports you with innovative technologies and expertise to address your toughest challenges. For more information, visit Emerson.com/RosemountGasAnalysis.

Standard Terms and Conditions of Sale can be found at www.Emerson.com/en-us/pages/Terms-of-Use.aspx
The Emerson logo is a trademark and service mark of Emerson Electric Co.
All other marks are the property of their respective owners.
©2018 Emerson. All rights reserved.

CMB-FLR-CX1100-180830

ROSEMOUNT™


EMERSON™