

ZTR-4 In-Situ Oxygen / Combustion Analyzer

In-situ zirconia probe for combustion efficiency and O2/COe.

Overview

The ZTR-4 is an in-situ combustion analyzer measuring residual O2 and combustibles (COe) directly in the flue at temperatures up to 700 °C. Boiler combustion trim reduces fuel consumption and NOx emissions.

Operating Principle

A directly-inserted heated zirconia cell measures flue O2 at process temperature. An optional COe detector measures unburnt combustibles, allowing closed-loop combustion trim for maximum efficiency.

Key Features

- Direct in-situ measurement (no sample line)
- O2 and COe combustion analysis
- Probe lengths 0.5 – 3 m
- Auto-calibration with reference gas
- 4-20 mA + Modbus

Benefits

- Improves boiler efficiency by 2 – 8 %
- Reduces NOx and CO emissions
- No sample handling required

Typical Applications

Boilers, Furnaces, Incinerators, Kilns

Technical Specifications

Measurement

O2	0 – 25 %vol
COe	0 – 10000 ppm
Probe Temp	Up to 700 °C
Accuracy	± 1 % of reading

Outputs

Analog	2 × 4-20 mA
Digital	Modbus RTU

Certification

Approvals	CE, ATEX zone 2 option
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