

CODEL

Monitoring Solutions

Editorial on the CODEL VCEM 5100 flow monitor



ISO 9001:2008

Quality Certification

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CODEL VCEM 5100 flow monitor

CODEL International is pleased to announce that the VCEM 5100 flow monitor has successfully received MCERTS certification. Tested by TÜV Rheinland at a power station operating under the Waste Incineration Directive, the VCEM 5100 is certified to QAL 1 of EN 15267 requirements for use on all EU regulated stationary emissions.

The VCEM 5100 represents the latest generation of CODEL's world renowned in-situ flow monitors. The VCEM 5100 technology offers significant benefits over other types of flow measurement devices.

- It operates accurately in stacks with hot, dusty and aggressive gases
- It does not require stable, laminar flow conditions in the stack
- As the sensing elements are isolated from the stack gas by an air curtain, they are unaffected by temperature constraints
- Maintenance requirements are very low and easy to carry out.
- It can operate at significantly higher temperatures than other continuous monitoring technologies
- There is an optional off-line checking system for the AST Linearity test.

The VCEM 5100 is a standalone unit which can be easily integrated into an existing or proposed CEMS system. It uses a unique measurement method, whereby naturally occurring infra-red patterns emitted from moving flow disturbances are measured by two passive infra-red sensors, a fixed distance apart. Stack gas velocity is calculated by measuring the time of flight of these transient events between the two sensors. A cross-correlation algorithm establishes the uncertainty of the measurement and excludes invalid data.

With EU requirements for monitoring mass flow in stacks in mind, the VCEM 5100 represents a cost effective flow monitor with superb accuracy and very low levels of maintenance required.

