

LOMAS®

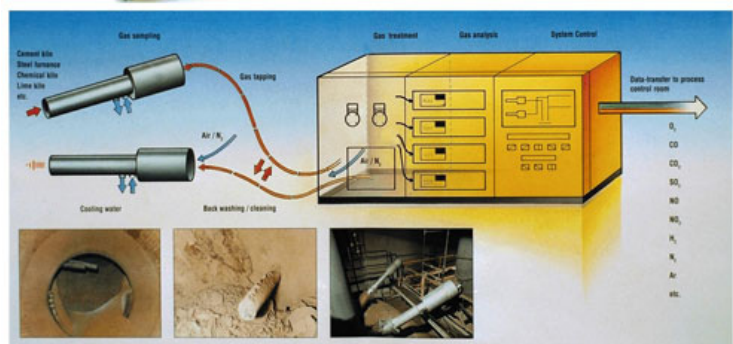
CONTINUOUS HIGH TEMPERATURE GAS ANALYZING SYSTEM

PRODUCT: LOMAS®

ISSUE DATE: March 2006

ADVANTAGES

- Temperatures > 1,200°C
- Atmosphere > 1,000 g/Nm³ dust
- Continuous gas analysis



2-PROBE OPERATION SYSTEM



- The analysis of hot, heavily dust-loaded industrial gases, which accumulate in the production processes of the cement industry have always been difficult to handle.
- This fact, as well as **current process technology requirements and regulations concerning environmental protection**, led to the development of LOMAS® (Low Maintenance Analysis System), a special gas tapping and treatment system for continuous gas analysis.
- This system ensures a high degree of **reliability and ease of maintenance**.

LOW MAINTENANCE ANALYSIS SYSTEM

GAS SAMPLING AND GAS ANALYZING FOR KILN INLET & CALCINER

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Gas treatment and analyzing cabinet

TWO PROBE OPERATION

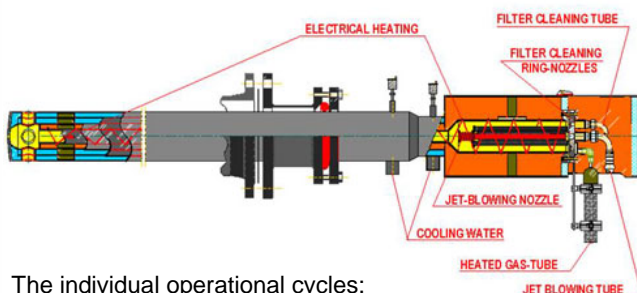
- One probe is used for gas tapping while the second probe is jet cleaned and regenerated
- Clean & dry process gas is backwashed through the second probe for filter regeneration
- Automatic, cyclic switching-over from one probe to the other

ADVANTAGES

- Continuous measurement
- Automatic cleaning of the filters
- High degree of availability of the system
- Low maintenance cost
- No oxygen peaks on the display during the jet cleaning operation
- No necessity to record measurements during backwashing respectively jet cleaning operation
- Constant up-to-date measurements

MODE OF OPERATION

LOMAS® gas sampling probe



The individual operational cycles:

- 1) gas sampling probe 1 / backwashing probe 2
- 2) gas sampling probe 1 / filter and jet cleaning probe 2
- 3) gas sampling probe 2 / backwashing probe 1
- 4) gas sampling probe 2 / filter and jet cleaning probe 1

Approx. 500 l/h of gas are drawn off by the compressor through one of the probes, out of which about 60 l/h are used per analyzer.

The residual gas is backwashed through the other probe regenerating the filter and sampling tubes or expelled into the atmosphere being blown through the sampling tube. Tapping of this large amount of gas flow reduces the dead time and thus provides quicker analysis results.

The individual operational cycles are initiated by a programmable logic controller. **The system is operated automatically and thus guarantees continuous measurement.**

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