



## EXHAUST HOT GAS FLOW MEASUREMENT IN CEMENT INDUSTRY, INDIA

### APPLICATION

Exhaust hot gas flow measurement in a reputed cement plant

### PROBLEM

Energy is a major input in the cement manufacturing process & it is met by setting up a Captive Thermal Power Plant for efficient operations. The heat generated through Rotary Kiln preheater (PH) & After quenching cooler (AQC) exhaust hot gases for power generation. Around 30%-40% of the power requirement of the cement plant can be fulfilled by using this waste heat for power generation. It optimizes the overall production cost.

- Exhaust gas is generated at very low static pressure in large ducts.
- Low velocity & high temperature from 150°C to 400°C
- Differential pressure flowmeters don't work at low flow rates.
- Existing DP flowmeter has high-pressure drop & low accuracy.

### OUR SOLUTION

Leomi - 586 Insertion Thermal Mass flowmeter

- High turndown ratio of 100:1 against 4:1 of the existing installation.
- No pressure drop.
- High accuracy against DP flowmeter
- Works well even in high temperature & low velocity
- Doesn't require a shutdown for installation
- No maintenance than the existing flow meter used.

### INSTALLATION FACTS

Leomi 586 is installed in the Exhaust hot gas after quenching cooler (AQC) in 2000mm with flow rates of 40000 Nm<sup>3</sup>/hr. Works excellent at a high temperature around 340°C operating and low velocity up to 0.8m/s.

### CUSTOMER

Highly reputed starch plant, Gujarat

### PRODUCT

LEOMI- 586, Insertion Thermal Mass Flowmeter

### WHY LEOMI

- An ISO 9001:2015 company, Startup India recognized
- German technical collaboration Engineered in India
- India's First In-house fully automatic wind tunnel calibration system
- Product quality proven for more than 20 years installed worldwide.

