

# PARTICULATE MONITOR

## Online Dust Emission Monitor Model SME-CEMS-209

### Process Trend Monitor and Multi-Purpose Dust Alarm With Display

A Real time Continuous indicative dust monitor with logging & alarm capability.

Low Cost Solution to Monitoring Requirements.



### SPM Monitor

#### APPLICATIONS

The Stack Guard is used in most situations where the actual or potential presence of particulates creates an indicative monitoring requirement & also where higher cost of a quantitative monitor is not justified.

- Filter Failure Alarms
- Process Control Monitor
- Cogeneration Power plants
- Ferrous & Non Ferrous metal Processing Unit
- Cement Plants & Silos
- Petrochemical, Pharma
- Boilers & Incinerators Paper Plants etc.

#### FEATURES

- Quick & easy single point installation with no moving parts.
- Low capital & maintenance costs.
- High Sensitivity.
- Can be calibrated to show emission levels in mg / m<sup>3</sup>.
- Adjustable range from 1-1,000mg/m<sup>3</sup>.
- Minimum detection limit less than 1mg/m<sup>3</sup>.

#### TECHNOLOGY

The Stack Guard series operate on the principle of Tribo - Electric charge transfer. The electrical charge carried by dust particles is captured by a highly sensitive Tribo - Electric probe, amplified and then transmitted to the control unit. As the current generated by the charge is proportional to the concentration of particles present, an indicative signal of dust presence results.

**Stack Guard is most suitable for use in Low Humidity gas streams with reasonably constant flows.**

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## SPECIFICATIONS

### Measurement

Technique	: Tribo - Electric charge transfer
Sensitivity	: Adjustable over a wide dynamic range
Operating Temp (Ambient)	: -15 to 50 deg. C
Operating Temp (Gas)	: -15 to 250 deg. C ("T" Model up to 700 deg. C )
Ranges	: 1-1,000mg/m3
Response Time	: Instantaneous

### Installation

Duct Width	: 25mm to 2.2m
Positioning	: 90 deg. C to Duct Wall
Communications Path Length	: Communications Path Length Up to 1,000 meters
Socket	: Single 1 Flat Flanged Fitting

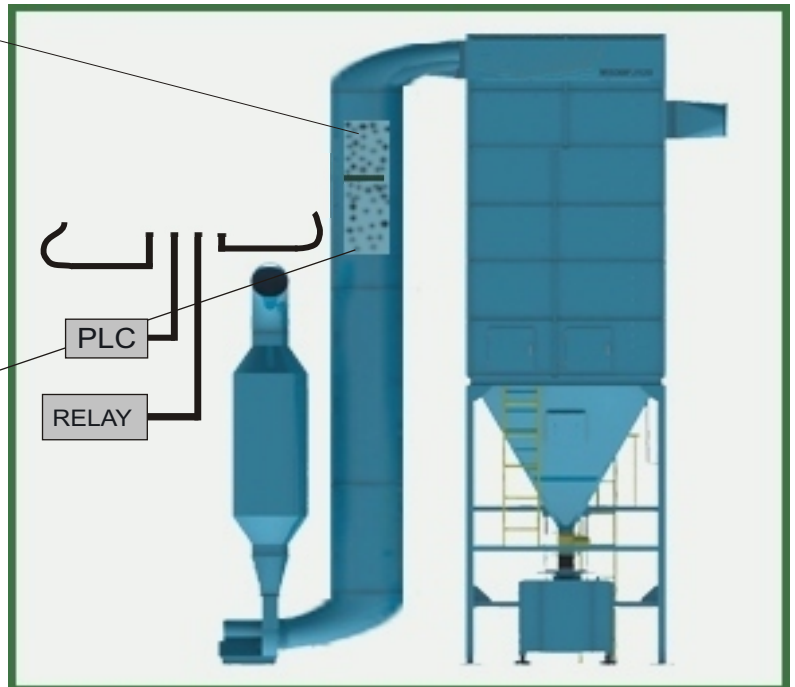
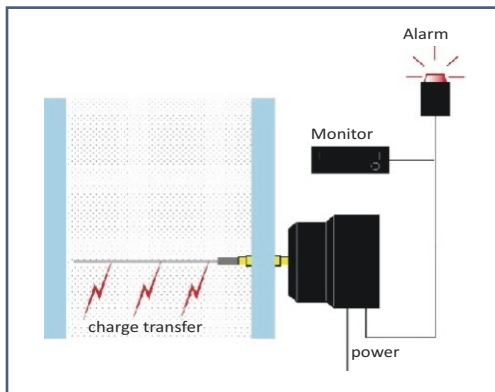
### Probe

Construction	: 316 Grade Stainless Steel
Sensor Length	: 25, 100 or 200mm (or customized)
Sensor Diameter	: 10mm
Size of Attachment	: 115 X 65 X 55 mm
Insulation	: PTFE (T Model - Glass Ceramic)
Operating Temperature	: -15 deg. C to 55 deg. C

### Control Unit

Display	: 128*64 graphic display
Alarms	

Averaging Time	: Programmable Up to One Hour
Output - Remote Alarm	: Single Pole Relay 24V
Output - Remote data	: 4-20mA Continuous Output
Optional Output	: RS 232



## CONTROL UNIT

The Control unit is mains powered, & incorporates alphanumeric display with Adjustable alarm levels.

Dust levels at which the red LED light, alarm is triggered

The emissions level at which the audible and visual alarm is triggered