

Measuring Principle

When solid particles impact an isolated metal probe, or pass nearby, they transfer their charge to the metal probe. The charge is amplified and converted to 4-20mA signal output or RS485 Modbus RTU with proportional to dust concentration.

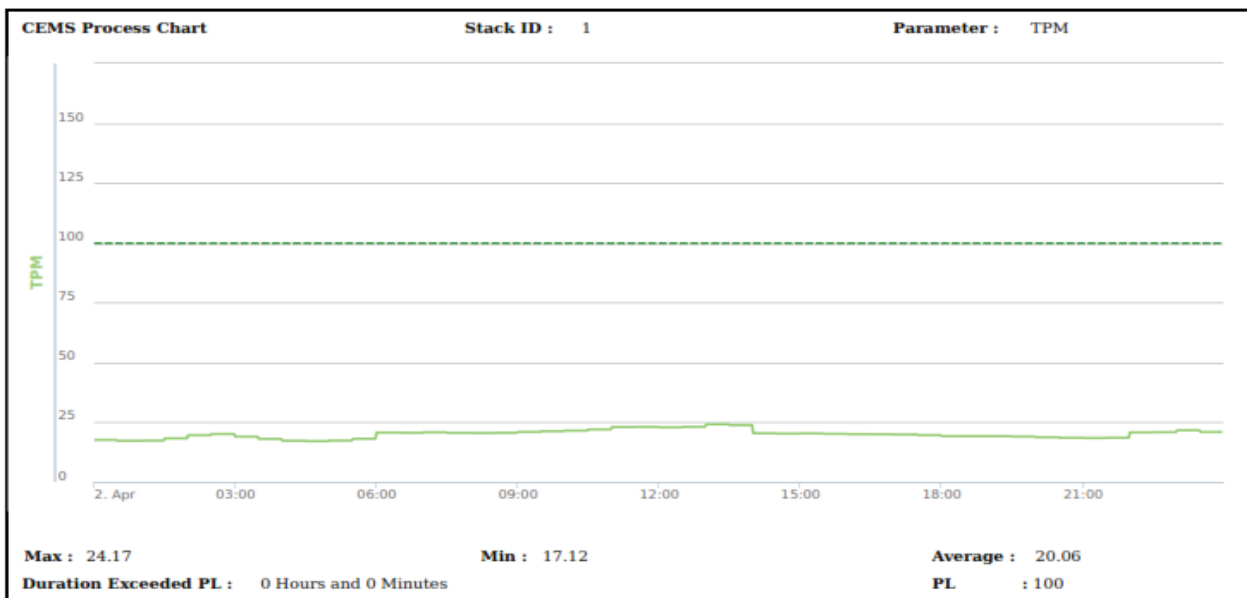


Features

- Detect solid particles with diameters from 0.1µm to 200µm
- For high pressure application up to 1MPa
- Easy to install and adjust
- Easy to maintenance
- Probe Length : 200mm/400mm/600mm/800mm/1000mm

Application

- **Cement Plant**
 - For coal ash and other raw material
 - Cement & Concrete product
 - For kilns, Air Quality Control System
- **Ironworks**
 - For Steel Sintering
 - For Casting
 - Coke Ovens
- **Chemical Plant**
 - For catalyzation
 - Smoke Removal
- **Rubber & Carbon Plant**
 - Handling Raw Material
- **Waste Incinerator Plant**
 - Monitoring Environmental
 - Incinerator



Technical Specification

Model	DM-LK-DM11
Power Supply	24VDC
Weight	2.8 Kg
Analogue Output	4-20mA
Ambient Temperature	-45 to 65°C
Enclosure	IP65
Particle Size	0.1~200µm min
Particle Concentration	0.1~200µm min
Gas Flow Velocity	1m/s ~ 30m/s
Humidity	90°C max
Measurement Range	0-1000mg/m3
Probe Length	200mm/400mm/600/800mm/1000mm
Measurement Range	0-1000mg/m3
Pressure	-0.1 ~ 1mPa



Example Typical Layout of Coal Power Plant

