

PRODUCT BROCHURE

E2-EM DUST MONITOR / SPM Analyzer

(Triboelectric Technology)
For Continuous Emission Monitoring System-CEMS



Introduction

The measurement of **E2-EM** dust monitors is based on particles interacting with an isolated probe mounted into a duct or stack. When moving particles pass nearby or hit the probe, a signal is induced. This signal is then processed through a series of advanced algorithms to filter out the noise and provides the most accurate dust measurement. Classic **triboelectric technology** is based on the DC signal, which is caused by particles making contact with the sensor to transfer charges

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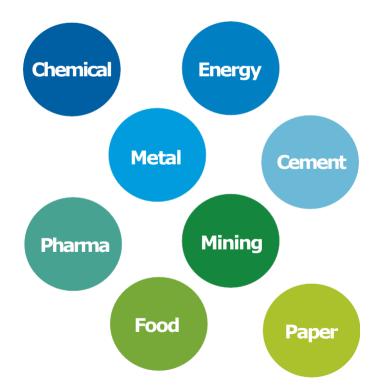
Features

- 1. On-line Continuous monitoring of SPM for various emission sources
- Combined techniques ,adaptive stabilization, dynamic adaptive phase-lock amplification
- 3. Easy start-up and commissioning
- 4. Rugged design for harsh industrial conditions
- 5. E2E based design and development of cloud server connectivity modem.

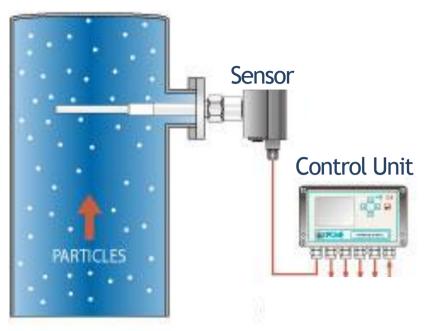




Industries Served



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Technical Specification

Product Name	E2-EM
Measured objects	Suspended Particulate Matter(SPM)
Measurement principle	Triboelectric technology
Measurement range	0 to 1000 mg/nm₃
Power supply requirements	24 V DC ±10% 1 00 240 V AC ±10%, 50 / 60 Hz
Power consumption	Up to 10 W DC/AC
Output signals	4 -20 mA output
Communication interface	Communication RS-485
Communication protocol	Modbus RTU (with RS-485)
Physical characteristics	
Enclosure	Abs
Wetted parts	Probe: Stainless steel
Weight	15kg (3.3lb)
Ambient conditions	
Temperature	-40 60 °C (-40 140°F)
Humidity	Max. 95 % relative humidity (non-condensing)
Process conditions	
Temperature	• Max. 300 °C (572 °F) optionally up to 700 °C (1292 °F)
Pressure	 Max. 600 kPa (87.02 psi) in temperatures up to 300 °C (572 °F) Max. 300 kPa (43.51 psi) in temperatures from 300 °C (572 °F) to 700 °C (1292 °F) when high-temperature process connection is used

E2E Innovative Solutions

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