

An Ideal Solution for Monitoring Pollution

Continuous Emission Monitoring



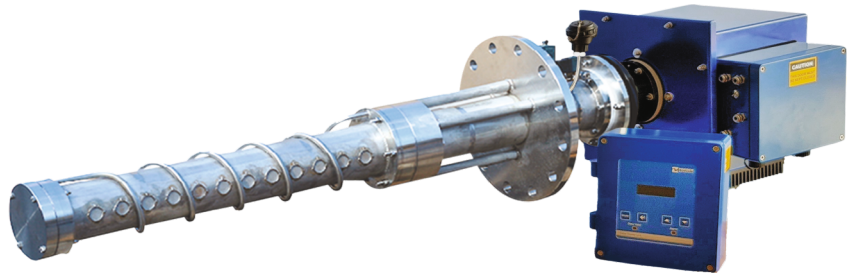
Continuous Emission Monitoring

We realize our social and ecological responsibility and with every new development, we emphasise our regard for the environment and the people who are a part of it.

Keeping this in mind we bring you, Continuous Emission Monitoring Systems from Forbes Marshall and Codel International, UK, a Forbes Marshall group company, who specialise in the design and manufacture of high technology instrumentation for combustion processes and stack emission monitoring.

We are part of many successful power, iron and steel, cement, chemical, pharma, pulp and paper industries. Our machines and test facilities are in line with national / international norms. This makes us the most preferred supplier to all the well known industries. With a widespread network at over 30 locations globally, we are easily accessible for prompt and efficient sales and service support.

FMGCEM40XX In-situ Multi Gas Analyzer



World class, rugged, reliable accurate, In-situ gas analyser which works 365 days a year

IR based multi gas analyzer for CO, SO₂, NO_x, HCL, CH₄ measurement

No sampling / conditioning of gases, fast response

Works on gas diffusion technique, no filter choking

Built-in CO₂, H₂O, temperature and pressure measurement for online normalisation

CO measurement at APH inlet or economiser outlet for boiler combustion efficiency monitoring

Suitable for above dew point to 400°C gas temperatures

Online calibration using audit gases

Negligible maintenance, power consumption only 400W

FMGCEM40E Closed Coupled Hot Wet Extractive Multi Gas Analyzer



IR based multi gas analyser for the measurement of CO, SO₂, NO_x, HCL, CH₄ gases

Built-in measurement of O₂, CO₂, H₂O, temperature, pressure for online normalisation

Closed coupled hot wet extractive gas analyser, no conditioning of sampled gases required

Field mounted - no A/C rooms/ shelters required

Suitable for wet processes

Online calibration using audit gases

Negligible maintenance, low power consumption

FMDCEM2100A
Dual Beam Opacity / Dust Density Monitor



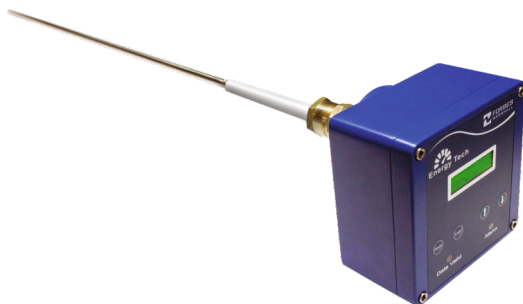
Unique dual beam transmissometer
Automatic lens contamination correction
Automatic zero and span check
Dynamic misalignment check
Built-in fail safe shutter
Suitable for above dew point to 600°C gas temperatures
Local / remote control unit
Data in % opacity, mg/m³ and mg/Nm³
Online keypad correction for temperature, pressure, H₂O and CO₂ / O₂
Low maintenance, high availability

VCEM 5100
Insitu Non-contact Gas Flow Monitor



Provides non-contact measurement of flue gas velocity using a time-delay correlation of the flue gas infrared energy sensed by two detectors spaced at a known distance apart
IR detectors, no transmitter
Non contact measurement
Suitable for above dew point to 1100°C gas temperatures
No moving parts high reliability, low maintenance
Continuous real time measurement
Measures gas velocity in m/sec
Measures gas flow in m³/sec
Integral auto low and high span value check

EnergyTech 301
Dust Monitor



EnergyTech 301 dust monitor uses the well proven tribo electric sensor technology to directly measure particulate concentration by sensing the frictional charge created when particles collide with conductor, i.e metal probe.
Accurate DC Tribo frictional electrification method
Automatic zero and span checking
Direct O/P available in mg/m³ or kg/hr
Suitable for upto 5 meters stack diameter
RS 485 modbus output
In-situ probe 1" single port entry
Easy installation, negligible maintenance

DCEM3100
Hot Wet Extractive Dust Monitor for Condensing Gases



Field mounted

Scattered light dust monitor

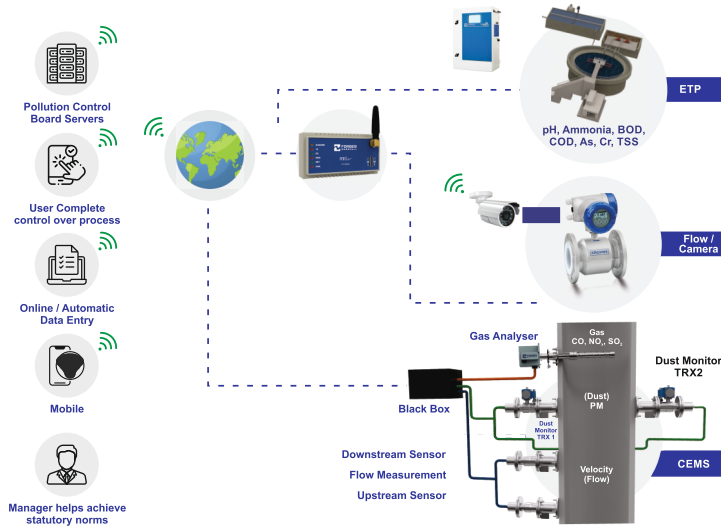
Powerful blower to eject the dusty, corrosive, wet gases from duct/stack

Suitable for the range of 0-15mg/m³ to 500mg/m³ of dust

Sampling probe - suitable for condensing gases as well as for temp upto 180°C application

Auto and manual zero/span calibration check

On line Emission Data Transmission to SPCB/CPCB/DOE Central Servers



Enhanced CEMS Uptime Services

Benefits



Uptime
 Increase the instrument uptime



Health
 Continuous monitoring by experts on health of the instruments generating easy to follow preventive actions



Benchmarks
 Highlights critical emission upsurges



Proactive Support
 Suggestions and recommendations on proactive maintenance



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