

- Sampling Conditioning Systems
- Process Analytics
- System Integration
- Gas Generators
- FTIR-Analyser

analysing systems

# CONTINUOUS EMISSION MONITORING SYSTEM CEMS



## FEATURES

- ◆ Measurement of emissions
- ◆ Measurement of volume, P, T and dust
- ◆ Data Acquisition Systems
- ◆ NDIR, CLD, FID technology
- ◆ Electrochemical or Paramagnetic O<sub>2</sub> sensor
- ◆ Automatic calibration
- ◆ Low maintenance
- ◆ Proven solutions

## GENERAL

The JCT Continuous Emission Monitoring System is designed to provide easy and reliable measurement of combustion gas emissions on coal, oil or gas fired boilers in power plants, incinerators, cement plants, steel plants and in industrial combustion processes. All our solutions offer state of the art technology and lowest possible maintenance.

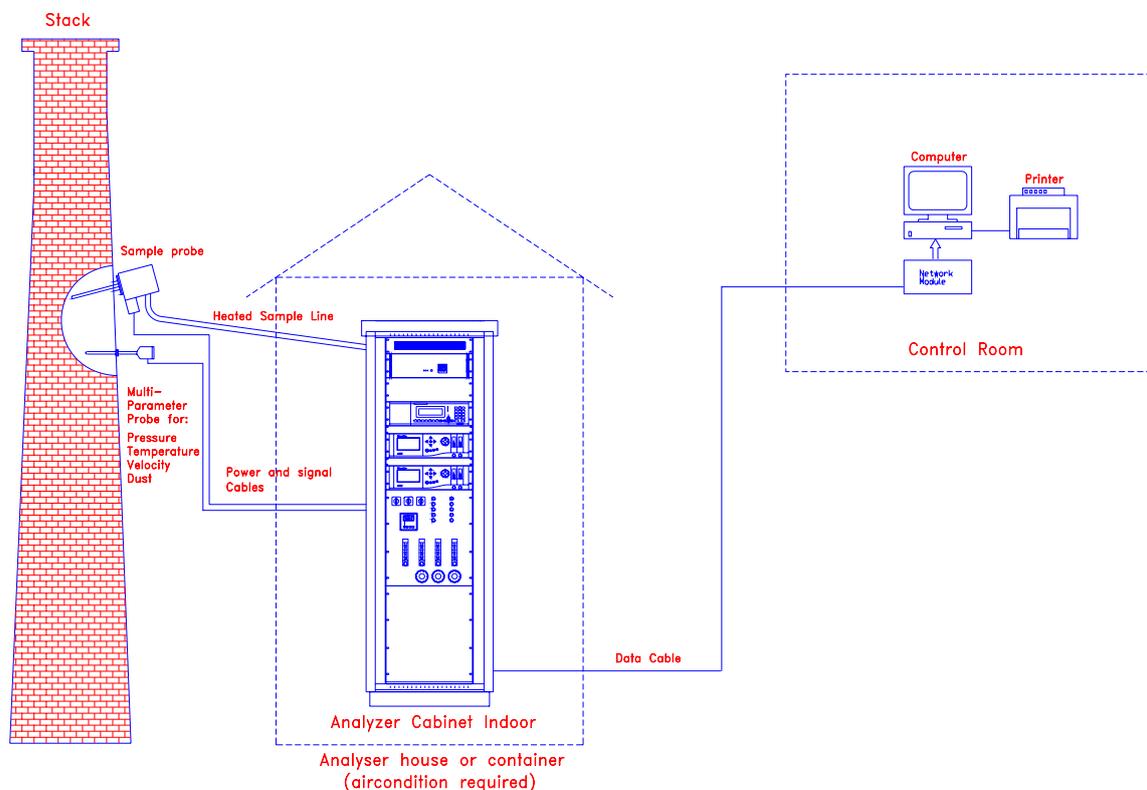
## TECHNOLOGY

A small sample amount of the flue gas is taken from the stack, conditioned and analysed for typical combustion gases like e.g. CO, SO<sub>2</sub>, NO<sub>x</sub>, org. C (TOC or volatiles) and O<sub>2</sub>. The analytical instruments are installed typically into a cabinet for indoor installation.

## FEATURES

We offer complete systems including heated sample probe, heated sample line and approved Non Dispersive InfraRed **NDIR**, IR analysers, **Flame Ionisation Detector FID** analysers, single NO measurement, NO<sub>x</sub>/NO measurement using a catalytic converter or **Chemie Luminescence Detector CLD** NO/NO<sub>x</sub> analysers and paramagnetic or electrochemical Oxygen sensors. Insitu dust analyser, temperature and pressure sensor inconjunction with a sophisticated Data Acquisition System DAS completes the CEMS package. Automatic calibration, low maintenance and a diagnostic system keep operation costs low and offer a maximum system availability.

# TECHNICAL DATA



SPECIFICATIONS	
Measuring principles	NDIR (CO, NO, SO <sub>2</sub> ), FID (organic C), CLD (NO, NO <sub>x</sub> ), Paramagnetic O <sub>2</sub> , Electrochemical O <sub>2</sub>
Data transmission	0/4-20mA galvanic isolated or digital data transmission
Signals	potential free status contacts
Protection class	IP54

SPECIFICATIONS	
Power supply	400/240VAC, 50Hz
Power consumption	approx. 3...6kW depending on configuration
Dimensions	1000 x 2100 x 600 mm (WxHxD)
Weight	approx. 350kg
Cabinet	painted mild steel, RAL 7035
Container for outdoor installation on request	

Specification subject to change without notice.

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