

Ecotech CEM

Continuous Emission Monitoring System

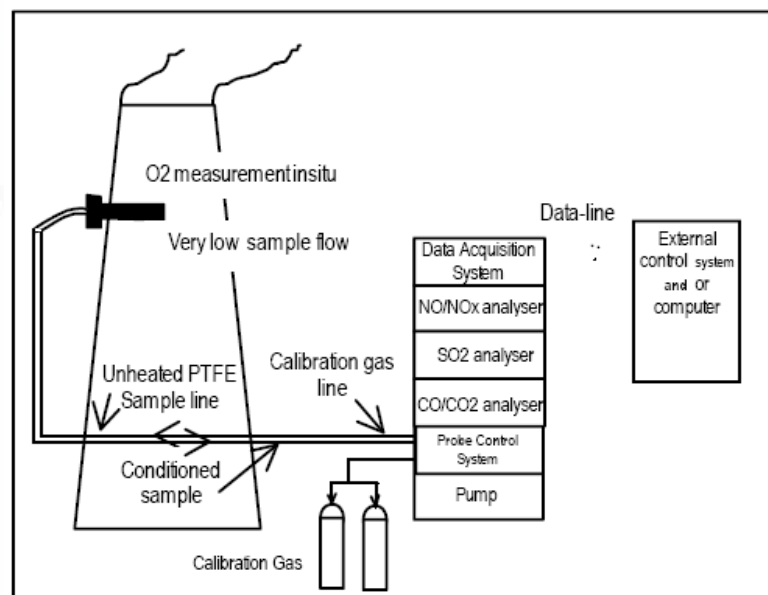
The Ecotech Continuous Emission Monitoring System utilises extractive dilution probe technology to measure gases emitted by combustion processes. The system meets international standards for stack emissions measurements and enables Ecotech customers to demonstrate compliance with various emission and pollution control regulations.

Ecotech developed software manages the data collection, system calibration and control of individual system components.



Features

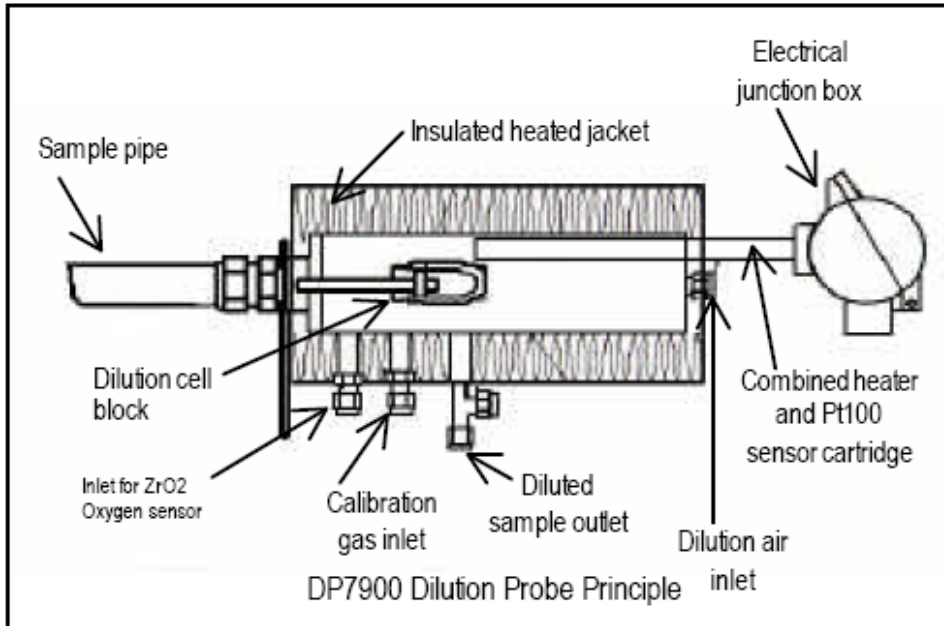
- Temperature controlled critical orifice dilution.
- Lowering sample dew point to $< 0^{\circ}\text{C}$ means no heated lines are required .
- “*In situ*” calibration of complete system utilising probe dilution.
- Adjustable probe positioning length ensures optimum sampling point.
- “*In situ*” Oxygen measurement (optional)
- Linear dynamic measuring range from $<1\text{ppm}$ to $> 2000\text{ppm}$.



Stack Monitoring System with Dilution Probe Technology



Extractive Dilution Technique



Specifications

Gas Analyser	Measuring Method	Measuring Ranges	
		Ambient	Stack
NO/NO _x	Chemiluminescent	0-20 ppm	0-10,000 ppm
NO ₂	Chemiluminescent	0-10 ppm	0-1,000 ppm*
NH ₃	Chemiluminescent	0-50 ppm	0-5,000 ppm
SO ₂	U.V Fluorescence	0-20 ppm	0-10,000 ppm
H ₂ S	U.V Fluorescence	0-20 ppm	0-2,000 ppm
TRS	U.V Fluorescence	0-20 ppm	0-2,000 ppm
CO	Gas Filter Correlation	0-200 ppm	0-30%
CO ₂	NDIR		0-50%
O ₂	ZrO ₂		0-21%

* Stainless steel converter necessary

More detailed technical specifications are provided in dedicated, individual gas analysers.

These brochures are available from Ecotech.

Threshold and accuracy selected according to application.