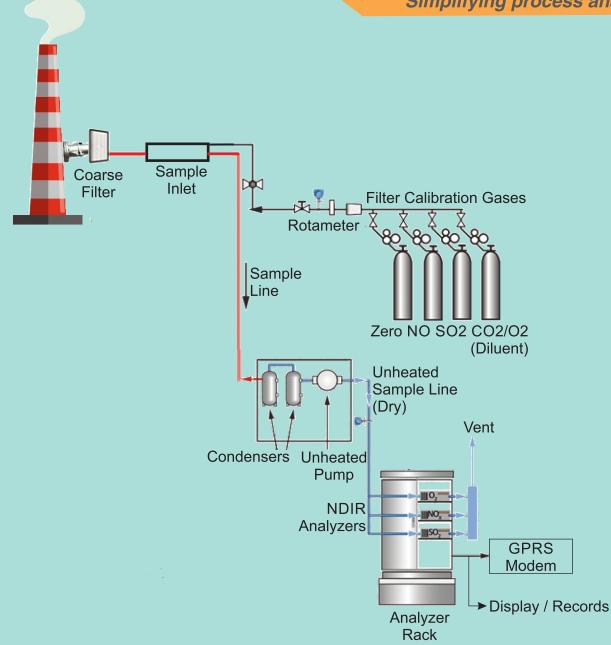




ICEMS-788A
Continuous Emission Monitoing Station



Overview:

INSTRUMEX ICEMS-788A Continuous Emission Monitoring Station implements the most advanced laser based analyzers along with robust sample handling system that ensures accurate sampling of stack gases. It employs a conditioning system that condenses and filters coarse particles out of the stack gas and delivers uncontaminated gases to the analyzers.

A set of NDIR based analyzers provide highly accurate gas concentration data which is transferred to online servers using the GPRS Modem or field mounted dataloggers for data recording.



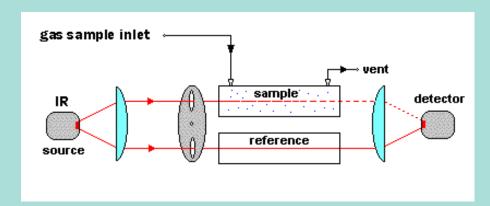




Working Principle:

The Non Dispersive Infrared (NDIR) detection method is based upon the absorption of infrared radiation at specific wavelengths as it passes through a volume of sample. Non-Dispersive Infrared (NDIR) techniques for the measurement of various gases rely on the

Non-Dispersive Infrared (NDIR) techniques for the measurement of various gases rely on the energy absorption characteristics of a particular gas in the infrared region.



In a simple NDIR instrument, Infrared energy passes through two identical tubes and falls on a detector. The first tube is the reference cell and is filled with a non-absorbing gas such as nitrogen. The second tube is the measurement cell and contains the gas sample to be analysed.

Scope of Measurement:

Parameter	Technology	Measuring range	Operating temperature	Resolution
SPM	NDIR	0-800 μg/m3	10 -40°C	1 μg/m3
SOx	NDIR	0-5000 PPM	0 -45°C	1 PPM
NOx	NDIR	0-5000 PPM	0 -45°C	1 PPM
СО	NDIR	0-5000 PPM	10 -45°C	1 PPM
CO ₂	NDIR	0-25 %	10 -45°C	0.01 %
02	NDIR	0-25 %	0 -45°C	0.01 %

Specifications:

Accuracy	+/- 1% F.S.		
Repeatability	+/- 1%		
Zero / Span Drift	< 2% F.S.		
Output	GPRS / RS232 / RS485 MODBUS (as per order)		
Power Supply	230V AC, 50Hz		
Dimensions	Analyzer Rack: (60 x 30 x 27)"		
Weight	Approx. 250 Kgs.		

Key Features:

- On site extractive measurement
- Measurement accuracy is not affected by water and dust.
- Strong gas chamber, low operation and maintenance cost.
- Gas chamber made of Stainless Steel.
- Detector is connected to gas chamber via optical fibre which is convenient for replacement and achieves low maintenance cost
- Detector is connected to gas chamber via optical fibre which is convenient for replacement and achieves low maintenance cost.
- This product adopts the most advanced Electrochemical technology and has high accuracy, low lowering limit and small temperature drift.
- Achieves simultaneous measurements of SOx and Nox.
- No optical moving parts, strong vibration resistance and measurement reliability.
- Modular design, good expansibility and convenient maintenance.
- Remote Calibration with calibration cylinder
- Data Uploading Time 1 Min to 30 Min
- Online Remote Calibration (Optional)
- Online System Failure Alarms (Optional)



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"Environment is not an object of our pleasure but it is the reason of our very existence!"

At Instrumex, this forms the basis of our development philosophy and we are committed to send this message to the world through our services.

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Continuous product development and innovation are the policy of our company. Therefore, we reserve the right to change the specifications without prior notice.



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