



ThermoFisher
S C I E N T I F I C

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Thermo Solution : Emission, Ambient & Particulate Monitoring

Ambient Particulate Monitors



Source & Ambient Gas Analyzers



Personal Dust Monitors



Continuous Emissions Monitoring Systems



Regulatory Compliance

Process Monitoring

Health & Safety

Presentation Covers

Continuous Emission Monitoring System:

1. IMPLEMENTATION CHALLENGES & IMPROVEMENT

- A. Interchangeability/ Interoperability issues between multiple makes/ models
- B. Issues related to high rate of Obsolescence/ Upgradeability of equipment/ instruments
- C. Concerns regarding reliability of data with aging of instruments/ sensors
- D. Aspects related to Operation & Maintenance in Indian scenario
- E. SLA (Service Level Agreement) in maintenance contract for timely calibration and maintenance of analyzers

Interchangeability/ Interoperability issues between multiple makes/ models

Transfer of Analyser concentration with 4- 20 mA as output ,

However RS232 / RS 485 Digital data communication may not be possible . (Limitation of Protocol)

Spares parts availability is an issue for interoperability

Engineers availability is possible

Issues related to high rate of Obsolescence/
Upgradeability of equipment/ instruments

Instrument life cycle is of 12 -15 Years

Spare part support available for 10 years from date of
discontinuation

Concerns regarding reliability of data with aging of instruments/ sensors

Calibration with certified gases and electronic corrections .
It can be achieved with 5 Point Linearity checking with certified gases and use of USEPA compliant Analyzer .

Calibration shall be performed once in fortnight

Aspects related to Operation & Maintenance in Indian scenario

It is important to train End User themselves , understand working / operation / Maintenance of Analyser. Consumables like Cal. Gas Cylinder, Scrubber for zero calibration are available Locally.

Spares are stocked by OEM present in INDIA.

SLA (Service Level Agreement) in maintenance contract for timely calibration and maintenance of analyzers.

Presently most of the end user are opting with AMC, CMC, O&M along with main Package to ensure High level of System Availability, timely calibration and maintenance of analysers



THANK YOU

ANY
QUESTIONS
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