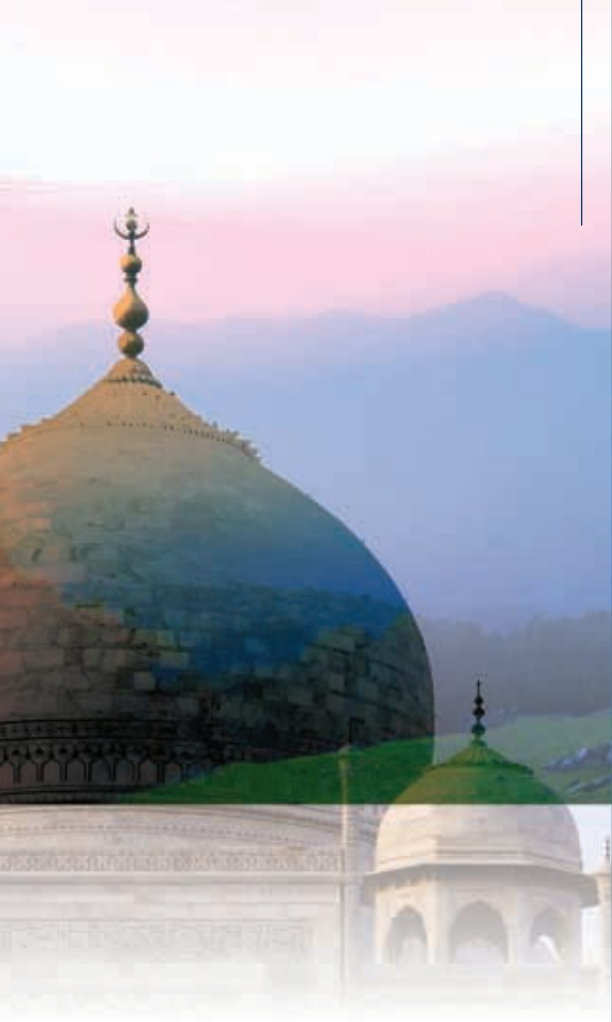




Providing Complete Environmental
Monitoring Solutions for the Indian Market



**Thermo Scientific Air Quality Monitoring
Instruments and Systems**

For over 30 years, Thermo Scientific instruments and systems have been offered throughout the Indian market and the rest of the world.

Thermo Scientific Air Quality Monitoring

Instruments

With established offices in Mumbai and regionally based sales and service offices throughout India, we strive to provide our local customers the instrumentation, services and support that meet the needs and expectations of this growing market.

We offer the industry's most comprehensive line of Industrial Hygiene and Air Quality Instrumentation, including complete Air Quality Monitoring (AQMS) and Continuous Emissions Monitoring Systems (CEMS), for detecting a broad range of gaseous and aerosol pollutants.

Our staff is comprised of highly trained engineers, expert product specialists and an experienced commissioning and service group located within the India geographical reach. We additionally offer the expanded expertise of our U.S. based Global System integration team.

Our modern, ISO 9001-2008 certified facility is equipped to:

- Design and integrate CEMS as well as AQMS
- Manufacture non-hazardous as well as hazardous area systems with CIMFR Certified HVAC (3 Ton AC for use in Zone 1, Gas Group IIA & IIB, including accessories)
- Provide in-house and third party testing of integrated systems
- Supply a range of instruments for indoor air quality and industrial hygiene monitoring

Additional Facility Features include:

- State-of-the-art material handling and storage capabilities
- Uninterrupted power back-up around the clock
- Readily available spare parts inventory for our complete product portfolio



CIMFR Certified for Hazardous Areas
C102 GroupCNP/2280/2009-2010
IS: 2148-2004
IS: 5780-2002/ EN 5002:1994



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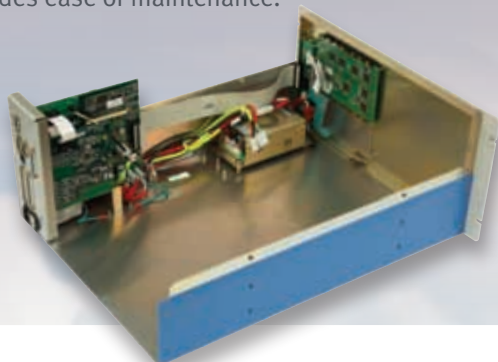
iSeries Analyzer Advantages

- User friendly interface and easy to maintain
- Increased communications capabilities

iSeries Analyzer Advantages



Incorporating common electronics and spare parts into the design of each iSeries analyzer means a lower cost of ownership and provides ease of maintenance.



The Thermo Scientific iSeries platform, designed with an open layout, provides easy operation, accessible compartments for simplified on-site maintenance, and enhanced interface capabilities. We offer a broad range of measurement technologies to monitor a complete spectrum of source and ambient gases as well as monitoring for particulate applications with increased ease of use and communications capabilities.

User interface

Featuring fast, intuitive navigation and simple, menu-driven programming, our application-tailored software keeps you informed and in control.

Powerful & Capable

Management of regulatory requirements for systems demands integrative, adaptive and authenticated data acquisition and handling systems. Network expanded I/O functionality and flexible connectivity allow for seamless integration into just about any plant operation and data flow.

I/O

We specialize in products that include all the connectivity options you need to integrate your monitoring data into your facility's data management or distribution control system and software packages that work to meet your needs.

- Ethernet Port (TCP/IP)
- RS-232/485 Serial Connectors
- Various communication protocols including ModBus
- Analog Outputs
- Digital and Analog Inputs
- Digital Output Card (Standard)
- I/O Expansion Card (Optional)

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Source Emissions Monitoring

- Gas Analyzers
- Continuous Emissions Monitoring Systems (CEMS)

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Ambient Monitoring

- Air Quality Monitoring Systems (AQMS)
- Particulate and Gas Monitoring

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Industrial Hygiene Instruments

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Complete Product Offering

- Services & Support – Back cover

Continuous Emissions Monitoring

Utilizing our wide range of gas analyzers, probes and other critical components required for unattended, long-term reliability, we design each system around your needs. Our integrated systems come standard with the essential connectivity options necessary for seamless communication between Thermo Scientific CEMS and plant data acquisition or distributed control systems.

Proven as a dedicated and technology driven systems provider our Thermo Scientific Dilution, iMEGA and Mercury CEMS were designed to meet the growing needs of the environmental market and can be found installed in numerous locations throughout the globe. Our commitment to designing easy to operate systems results in the creation of system solutions that maximum ease of use, lower installation and operating costs, provide high reliability, ease of maintenance and lower space requirements, all characteristics that make our monitoring systems the most desirable to own – on a daily, monthly and yearly basis.

Mercury CEMS

Source Emissions Monitoring Equipment

When it comes to monitoring source gas emissions, we've got the instruments you need to stay in compliance. Our gas analyzers, with the iSeries Platform as a baseline, utilize a broad range of measurement technologies to monitor a complete spectrum of gases.

We additionally manufacture probes, probe controllers, calibration equipment and air clean-up systems. Our family of probes includes dilution extractive and full extractive as well as application specific solutions with proven track records in harsh conditions, including high temperature, moisture and particulate loading environments. Calibration equipment designed for your specific application delivers the known quantities of targeted gases for precise daily calibration, periodic linearity tests, and audits. Air clean-up systems provide clean air for zeroing, dilution air to the probe and for other system needs unique to your plant.

SOURCE GAS MONITORING*

**SO₂ | NO_x | CO | O₂ | CO₂ | H₂S | TRS
THC | Hg | HCl | N₂O | Total Sulfur**

Utilized Technologies:

- Fourier Transform Infrared
- Non-Dispersive Infrared
- Chemiluminescence
- Pulsed Fluorescence
- Flame Ionization Detection
- Atomic Fluorescence

*Additional gases available



Applications include:

Electric Utilities
Power Generation
Cement

Pharmaceutical
General Industrial
Chemicals
Refineries

Pulp & Paper
Waste Incinerators
Metals
Turbines

Boilers
Sulfur Recovery Units
Landfills

Air Quality Monitoring Systems

Our Thermo Scientific Air Quality Monitoring Systems (AQMS) utilize the industry's widest choice of ambient instrumentation, providing solutions that add flexibility and convenience to monitoring for the Environmental Compliance Industry and Researchers alike. Utilizing U.S. EPA and Internationally approved methods, as well as traditional and innovative technologies, our ambient line of Thermo Scientific products offers the most versatile instrumentation available today.



Model 5014i Beta



Ambient Monitoring Equipment



Our ambient instrumentation offering encompasses the technologies you've come to know and trust over the years such as TEOM (tapered element oscillating microbalance), Beta Attenuation and Chemiluminescence. Whether you are studying the effects of particulate on human health, or monitoring to complying with regulations for gaseous and aerosol pollutants, there is a Thermo Scientific instrument to meet your requirements. We also offer numerous ambient instruments with our proven iSeries Platform design, for increased ease of use and maintenance.

PARTICULATE MONITORING*

PM-1 | PM-2.5 | PM-10 | PM Coarse
| TSP | Sulfate Particulates

Manual Monitoring Methods

- High and low volume air samplers
- Filter based federal reference methods
- PUF impaction for chemical speciation

Continuous Monitoring Methods

- Tapered Element Oscillating Microbalance (TEOM)
- Beta Attenuation
- Nephelometry
- Hybrid technology (Nephelometry and Beta Attenuation)

GAS MONITORING*

Ozone | SO₂ | CO | H₂S | NO | NO₂ | NO_x
NH₃ | CH₄ | NMHC | THC | N₂O

Utilized Technologies:

- Chemiluminescence
- Pulsed Fluorescence
- Non-Dispersive Infrared
- UV Photometry
- Flame Ionization Detection

*Additional gases available



Applications include:

Regulatory monitoring for compliance
Source identification and control

Emergency response

Determining gaseous or particulate trends

Forensic studies

Construction or remediation
Mining

Industrial Hygiene Instruments

We offer a comprehensive portfolio of products for field applications for industrial hygiene, occupational and environmental health, safety, and remediation professionals. Providing fixed and portable solutions for the monitoring of gases or particulates, we offer products for general use and areas requiring intrinsic safety.

GAS DETECTION

Our gas detectors can be configured to measure a single gas, simultaneous multiple gases and/or unknown gases. A broad range of gas detection products are also available to help you protect your workers and facilities. Available in personal or area monitors, our gas detectors are ideal for keeping workers safe as they enter confined spaces, potentially explosive or known toxic gas environments.

Utilized Technologies:

- Flame Ionization Detection
- Photoionization Detection
- Non-dispersive Infrared
- Electrochemical Cells
- Catalytic Bead

PARTICULATE MONITORING

The hazards of particulate exposure exist within both the concentration of the particulate and the size. We offer a number of continuous portable or fixed solutions to address both concerns whether on the job site or in the workplace. As with our gas monitoring, flexibility and battery powered field operation are key to successful monitoring.

Utilized Technologies:

- Nephelometry
- Tapered Element Oscillation Microbalance (TEOM)
- Impaction

Applications include:

- Portable Dust Monitors
- Personal monitoring
- Area monitoring
- Fixed Dust Monitors
- Perimeter monitoring
- Compliance reporting
- Cascade Impactors
- Pharmaceutical



MIRAN SapphIRe Infrared Analyzer

Personal DataRam series of instruments



Complete Product Offering

Source Gas

iSeries Gas Analyzers:

Model 48i CO
Model 410i CO₂
Model 55i Methane
Model 450i H₂S-SO₂
Model 15i HCL
Model 80i Hg
Model 60i Multi-Gas
Model 42i NO-NO₂-NO_x
Model 42i-D NO_x
Model 43i SO₂
Model 51i THC

High Level Analyzers:

Model 48i-HL CO
Model 450i H₂S-SO₂
Model 46i-HL N₂O
Model 42i-HL NO-NO₂-NO_x
Model 43i-HL SO₂

Low Source Analyzers:

Model 42i-LS NO-NO₂-NO_x

With Oxygen Sensors:

Model 43i-HL SO₂
Model 48i -HL CO
Model 60i Multi-Gas
Model 42i-LS NO, NO₂, NO_x
Model 42i-HL NO, NO₂, NO_x
Model 43i SO₂
Model 48i CO
Model 410i CO₂

Opacity and Flow Monitors

Probes, Probe Controllers and Converters

Dilution Extractive
Direct Extractive In-situ Dilution
Mercury (Hg)
Dilution

Continuous Emissions Monitoring Systems

Mercury Freedom System
U.S EPA Part 75 and 60 compliant
Total Reduced Sulfur

Calibration Kits, and Accessories

Ambient

Particulate Monitors and Samplers

TEOM 1405 Series
TEOM with Filter Dynamic Measuring System
FH62C14 Beta
5014i Beta
5030 SHARP
Partisol Series 2000 and 2025 Reference Samplers
High Volume Air Samplers
PUF (Poly Urethane Foam) Sampling System
Model 5020i Sulfate Particulate
Model 5012 Black Carbon Multi-Absorption Photometer

iSeries Ambient Gas Analyzers:

Model 17i Ammonia
Model 48i CO
Model 55i Direct Methane and Non-Methane
Model 46i N₂O
Model 42i NO-NO₂-NO_x
Model 42i-Y NO_y
Model 49i Ozone
Model 43i SO₂

Trace Level

Model 48i-TLE CO
Model 43i-TLE SO₂
Model 42i-TL NO_x

Zero Air Supply and Calibrators

Industrial Hygiene

Portable Gas

TVA1000 FID/PID Toxic Vapor Analyzer
TVA1000 DataManager
Genesis Series (Multi-Gas & Toxigen Models)
Innova Series
MIRAN SaphiRe Infrared Analyzer

Fixed Gas

Transmitters
SafeTNet Controllers and Control Cards
Detection Systems

Portable Particulate

pDR1000 personal DataRam
pDR1500 personal DataRam
DR4 DataRam and Accessories
Viable and Non-Viable Impactors

Fixed Particulate

ADR1500 Area Dust Monitor
PM ViewPoint System



For more information on these and other Thermo Scientific products, please visit our website at www.thermoscientific.com/aqi

We offer a full range of instrument and system focused services to meet the growing needs of the environmental market. Our service staff is available to work with you, review your needs and provide the solutions that fit your specific facility requirements. Our Field Service, Technical Support, Customer Service and Depot Repair teams are trained using hands-on, class room and real-world application techniques ensuring you get the right answer the first time, every time. We also provide a number of service offerings to assist in the integration and upkeep of your instruments including web based training, on-site training, depot repair, and monthly or quarterly service contracts.

We continue to support our customers with advanced online resources. Our Air Quality Instruments Online Library allows our customer access to product documents and information on a constant basis. Available 24-hours a day and seven-days a week, the online library provides quick access to information regardless of time zone or office hours.

Services and Support

- **Preventative Maintenance Contracts**
- **On-site and Factory Training**
- **Certification and Audit Testing Support**
- **Extended Warranties**
- **Factory Repair Service**
- **Technical and Customer Service Phone Support**
- **Quality Assurance**
- **System Integration and Instrument Upgrades**

Contact Us

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For more information about Thermo Scientific Instrument, systems, components, service or support, please visit www.thermoscientific.com/aqi. For ordering information, please contact your Thermo Fisher Scientific representative.

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