



MIR-FT

Fourier Transform
Infra-red



Installed across the majority of the UK's municipal waste incinerators, the MIR-FT offers multiple gas measurements from wet & corrosive samples

With the emissions limits tightening and new gases being introduced, this instrument allows future gas upgrades, providing the solution for today and what may happen tomorrow.

Assists In Achieving IED Compliance

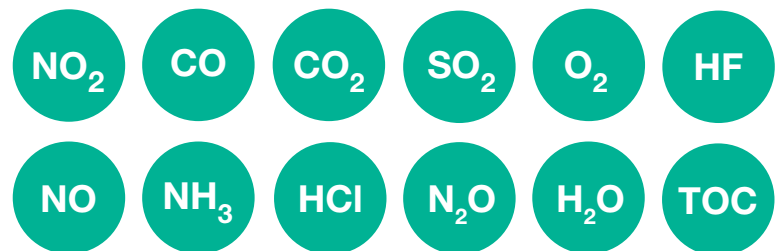
Designed to operate under the Industrials Emissions Directive, the MIR-FT offers maximum availability and complete compliance with QAL 1 of EN14181 & EN15267-3.

Leading Edge Technology

Specifically designed for CEMS, the MIR-FT would be rack mounted in air conditioned enclosures. Complete systems would normally comprise of;

- Sample extraction and conditioning probe (with integrated temperature, pressure and flow measurement)
- Heated sample lines
- Automatic calibration units
- Instrument air drying system
- CDAS Data Acquisition Software

Gases analysed



“Fast and rugged, the MIR-FT is unmatched in its accuracy and reliability”.

KEY BENEFITS

- Automatic spectral interference corrections
- Fast and simultaneous measurements for multiple gases
- Windows based PC driven software with on-board data acquisition
- Capable of automatic QAL 3 checks when used in conjunction with IVIS unit
- MCERTS Certified

Technical Specification

GENERAL

- Utilises Fourier Transform Infra-Red technology
- IED compliant
- Fast and simultaneous measurements for multiple gases
- Multi-component measurement capabilities

APPLICATIONS

- Energy from Waste
- Power & Combustion
- Biomass
- Advanced thermal treatment

PHYSICAL

- Dimensions: rack 19", 616 x 483 x 220mm (DxWxH)
- Weight: 20 kg approximately

PERFORMANCE

- Lower detectable limit: 2% full scale
- Response time: <2mins depending on the gas
- Operating temperature: +10°C to +35°C
- Interferometer resolution: 8 cm-1
- Measurement cell: multi-reflexion, 5m
- Power supply: 220V, \pm 15%, 50-60Hz, 200VA

CERTIFIED RANGES

- NO: 0-150mg/m³ - 0-600mg/m³
- NO₂: 0-200mg/m³
- CO: 0-75mg/m³ - 0-300mg/m³
- CO₂: 0-25%
- SO₂: 0-75mg/m³ - 0-500mg/m³
- N₂O: 0-100mg/m³
- HCl: 0-15mg/m³ - 0-90mg/m³
- NH₃: 0-15mg/m³
- H₂O: 0-30%
- O₂: 0-25%

SPAN & DRIFT

- Zero drift: \pm 1% full scale / 30 days
- Span drift: \pm 1% full scale / 30 days
- Repeatability: \pm 2% full scale

COMPLIANCE

- MCERTs certified to EN15267-3
- QAL1 as defined by EN14181
- QAL3 compliance to EN14181

Our complete project solutions are developed to assist you in IED compliance.

We achieve this through:

- Expert consultancy
- Project management
- In-house project design & build
- Installation & commissioning
- After product service & support

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Rev 2.2 May 18

