AMESA D

Dioxin / Furan Sampler

The AMESA D is designed for long-term, continuous, sampling of dioxins, furans and other persistent organic pollutants

Fine Dust Measurement

Fast becoming the system of choice for new build energy from waste plants, the AMESA D uses isokinetic technology to provide continuous monitoring and documentation of dioxins/ furans.

Monitor Four Sample Streams With One System

The AMESA D can be equipped with up to 4 sampling units, thus allowing successive automatic sampling of different pollutants (including dioxins and heavy metals) on one stack or across 4 separate stacks.

Internal Data Logging

AMESA D operates fully automatically and stores all necessary data both internally and on a removable SRAM card. The dioxins and furans (PCDD/PCDF) are collected in the absorption cartridge over a variable period between 6 hours and 4 weeks.

"The only long-term sampling system for Dioxins with TÜV, MCERT & ETV EPA approval".

KEY BENEFITS

- Remote control functionality available
- Continuous automatic sampling giving a more accurate representation of the sample
- Collection of condensate not required
- Data logging including: flue gas velocity, sample gas flow volume, flue gas temperature and cartridge temperature as half-hourly average

Technical Specification

APPLICATIONS

- Energy from Waste (EfW)
- Production Plants
- Recycling Plants

GENERAL DATA

- Measuring range (dioxin & furan): 0.0001-10 ng I-TEQ / m^3
- Sampling interval: from 6 hours up to 6 weeks
- Flue gas temperature:
  - up to 70 °C without cooling
  - up to 400 °C with cooling
- Max dust concentration in the flue gas: 50 mg/m^3
- Flue gas velocity: from 1 up to 30 m/s
- Operating temperature: +5°C to +40°C
  (optional air conditioner for temperatures over +40°C)
- Isokinetic control cycle: 1 sec
- Velocity measurement: ± 1 % of measuring range
- Accuracy of determining volume: ± 1.5 % of range

INPUTS / OUTPUTS

- Digital outputs: status (monitoring mode, fault, error)
- Digital inputs: Furnace off / maintenance
- Analog inputs: O_2, CO_2, gas velocity, static pressure etc

SAMPLING PROBE

- Probe length: 350 to 2000 mm
- Probe shaft diameter: 60 mm
- Clear diameter of probe tip: 4, 5, 6 mm
- Stack mounting: DN 100 flange (others avail. on request)
- Probe material: Titanium (glass optional)

SAMPLING UNIT

- Standard unit dimensions: 650 x 450 x 250 mm (H xWxD)
- Overbox dimensions: 1150 x 650 x 5000 mm (HxWxD)
- Absorbent cartridge: XAD-2

CONTROL CABINET

- Dimensions: 2000 x 800 x 650 mm (HxWxD)
- Weight: approx. 250 kg

EXTRA FEATURES

- Colour LCD screen
- Operation using jog dial
- Automatic multiplexing (up to 4 units)
- Internal data storage
- TCP/IP connection
- USB flash drive

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