



DX100

for Long-term Sampling of Dioxin, Furan, and CO₂

OPSIS offers a system for continuous dioxin, furan, and CO₂ emissions monitoring by long-term sampling. The system is based on a well-known adsorption method.

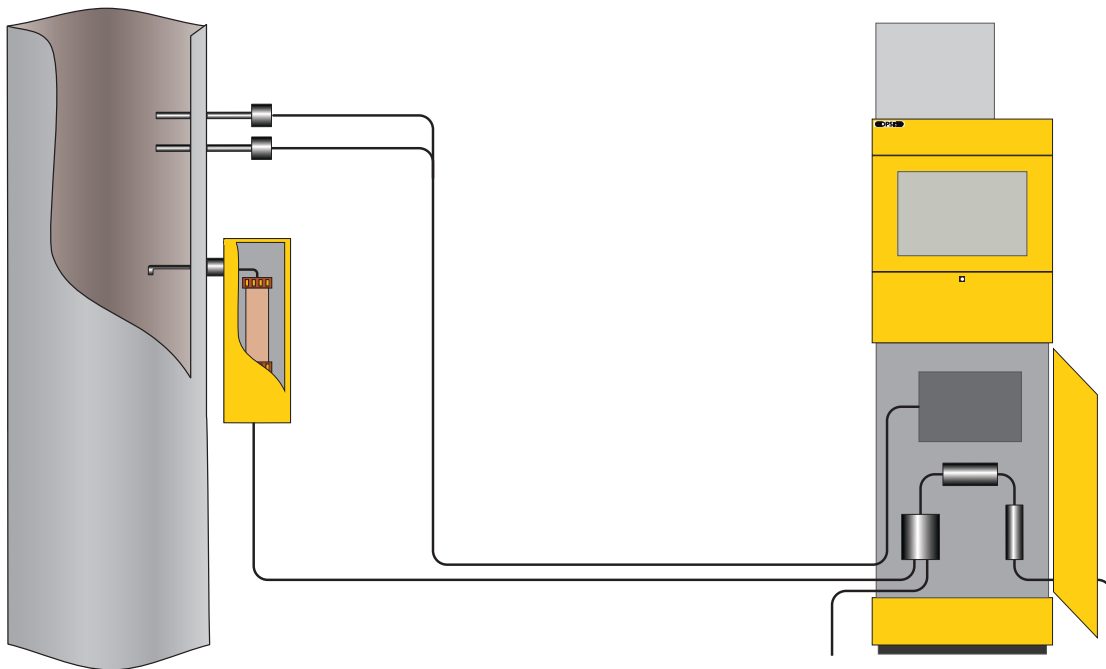
The comprehensive based measuring range for dioxin/furan concentrations range between 0.0001 and 10 ng/m³.

The system can be used in a range of applications, such as waste incinerators, power plants, cement industries, and pulp and paper industries.

The system is very suitable for demonstration of compliance with the European Union Best Available Techniques Conclusions for Waste Incineration (WI-BATC) requirements on emissions of polychlorinated dibenzo-p-dioxins and -furans (PCDD/F), and optionally dioxin-like PCBs.

Long-term Sampling by OPSIS

- Follows EN 1948:2006 regulation for dioxin sampling
- Sampling of CO₂ to determine the fossil fuel ratio
- Air cooled sampling system
- Air driven sampling pump
- Existing sensors for flow, temperature and gas composition are used
- Reliable system based on proven technology



A schematic of an OPSIS continuous dioxin/furan/CO₂ emission monitoring system

Technical Specifications

Measuring range (dioxin & furan):	0.0001-10 ng I-TEQ/m ³ (WHO-TEQ/m ³)
Sampling interval:	from 6 hours up to 8 weeks
Flue gas temperature:	up to 150°C
Max dust concentration in the flue gas:	50 mg/m ³
Flue gas velocity:	from 2 up to 30 m/s
Operating temperature (control cabinet):	+5 to +40°C (optional air conditioner for temperatures over +40°C)
Velocity measurement accuracy:	±1% of measuring range

Features

- Sampling of dioxin and furan
- Sampling of CO₂ to determine the ratio between fossil and non-fossil fuel
- Fully automatic isokinetic sampling from 6 hours up to 8 weeks
- Validated against method EN 1948
- Complies with requirements in WI-BATC for emissions monitoring of PCDD/F and dioxin-like PCBs

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Please contact your OPSIS supplier to discuss your particular system requirements, including the compounds you wish to monitor. Separate application and other product sheets are available. Specifications subject to change without notice.

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