



# **DX100**

### for Long-term Sampling of Dioxins, Furans, and $\ensuremath{\mathsf{CO}}_2$

OPSIS offers a system for long-term sampling of dioxins, furans, and CO<sub>2</sub>. The system is based on a well-known adsorption method.

The comprehensive based measuring range for dioxins/furans concentrations range between 0.0001 and 10  $ng/m^3$ .

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 dioxin-like PCBs.

#### Long-term Sampling by OPSIS

- Complies with the requirements under the European EN 1948 standard for determination of the mass concentration of PCDDs/PCDFs and dioxin-like PCBs
- Optional sampling of CO<sub>2</sub> 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

0



## **Technical Specification**

Dimensions (L x W x H) Sorbent container Gas cooler Control cabinet Air-condition unit Weight Sorbent container Gas cooler Control cabinet Power supply Sorbent container Gas cooler Control cabinet Measuring range (dioxins & furan)

Sampling interval Flue gas temperature Max. dust concentration in the flue gas Flue gas velocity Operating temperature (control cabinet)

Velocity measurement accuracy Degree of protection

#### DX100 - Standard

AC180-DX Control cabinet incl. air-condition unit SP100 Sample cabinet incl. probe, sorbent container, and flange Gas cooler WT256 Web transfer and router

DIN-rail including:

- $3 \times TM001$  Temperature modules
- $4 \times IM001$  Input modules
- $2 \times OM001$  Output modules
- 1 × DM016 Digital module
- 1 × DM002 Digital module

#### **Examples of Options**

Additional sorbent container A schematic CO<sub>2</sub> sampling Heated sample line between SP100 and AC180-DX

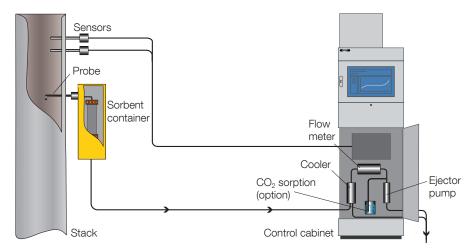
420 × 350 × 800 mm 400 × 410 × 400 mm 600 × 800 × 1900 mm 400 × 600 × 450 mm

26 kg incl. probe 18 kg 191 kg (240 kg with air con)

230  $V_{AC}$ , 400 W 230  $V_{AC}$ , 400 W 230  $V_{AC}$ , 1500 W 0.0001-10 ng I-TEQ/m<sup>3</sup> (WHO-TEQ/m<sup>3</sup>) from 6 hours up to 8 weeks up to 150 °C 50 mg/m<sup>3</sup> from 2 up to 30 m/s +5 to +40 °C (optional air conditioner for temperatures over +40 °C) ±1 % of measuring range IP 55

#### **Features**

- Sampling of dioxins and furans
- Sampling of CO<sub>2</sub> to determine the ratio between fossil and non-fossil fuel
- Fully automatic isokinetic sampling from 6 hours up to 8 weeks
- Operates according to EN 1948
  requirements
- Complies with requirements in WI-BATC for emissions monitoring of PCDD/F and dioxin-like PCBs
- 15267 Certified





P85

Please contact your OPSIS representative to discuss your particular system requirements, including the compounds you wish to monitor. Specifications subject to change without notice.

# OPSIS AB

Box 244, SE-244 02 Furulund, Sweden +46 46 72 25 00 • info@opsis.se • www.opsis.se