



# CO200

for Long-term Sampling of CO<sub>2</sub>

The OPSIS CO200 system is intended for long-term sampling of CO<sub>2</sub> to enable determination of the ratio between biomass and fossil fuel for environmental reporting and taxation purposes.

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

The system complies with the sampling requirements under the EN ISO 13833 standard utilizing radiocarbon (carbon-14) analysis.

CO200 is based on the same components as the OPSIS DX100 sampler for dioxins and furans, and can be retrofitted also for this purpose.

### Long-term Sampling by OPSIS

- CO<sub>2</sub> sampling to determine ratio of biomass (biogenic) to fossil-derived carbon dioxide
- Ideal for use under EN ISO 13833 standard for radiocarbon sampling and determination
- Complies with sampling requirements under EN 1948-1 standard
- Air driven extraction pump
- Long-life, high accuracy sampling pump
- Utilizes existing sensors for flow and temperature
- Reliable, low maintenance system based on proven technology.

## Technical Specifications

### Dimensions (L x W x H)

Probe cabinet	420 × 350 × 800 mm plus probe insert
Control cabinet	600 × 800 × 1900 mm
Air-condition unit	400 × 600 × 450 mm

### Weight

Sampling head assy. w. probe	26 kg
Control cabinet	191 kg
Air-condition unit	50 kg

Power supply 230 V<sub>AC</sub>, 2,300 W

Sampling interval 6 hours to 8 weeks

Flue gas temperature up to 150 °C

Max. dust conc. in flue gas 50 mg/m<sup>3</sup>

Flue gas velocity 2 to 30 m/s

Operating temp. (control cabinet) +5 to +40 °C (optional air conditioner for temperatures over +40 °C)

Velocity measurement accuracy ±1 % of measuring range

Degree of protection IP 55

### CO200 Standard

AC180-CO Control cabinet incl. air-condition unit

SP200 Probe cabinet incl. probe and flange

WT256 Web transfer and router

DIN-rail including:

3 × TM001 Temperature modules

4 × IM001 Input modules

2 × OM001 Output modules

1 × DM016 Digital module

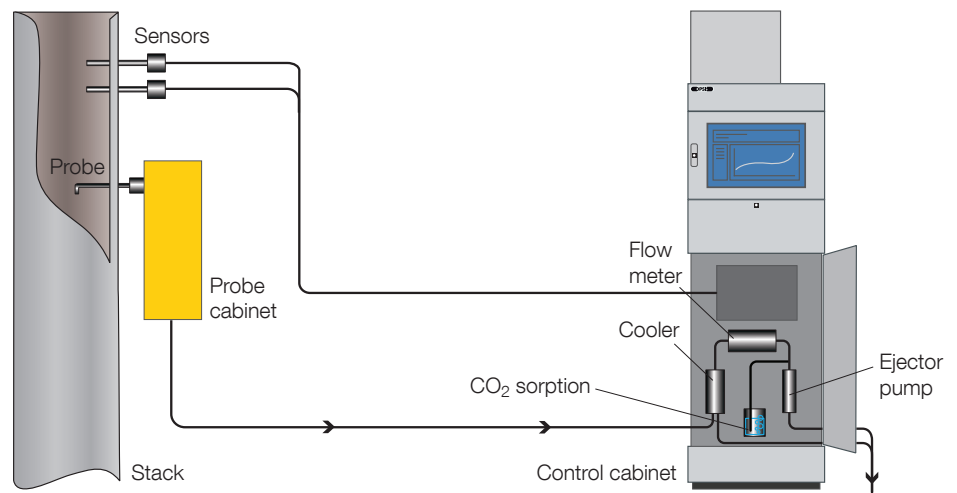
1 × DM002 Digital module

### Options

Additional sorption containers

Heated sample line between SP200 and AC180-CO

Kit for retrofitting CO200 to DX100 including CO<sub>2</sub> sampling



A schematic of an OPSIS long-term sampling system for CO<sub>2</sub>.

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

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