



PowerCEMS50

Efficient and easy measurement of emissions

CONTINUOUS EMISSION MONITORING SYSTEMS (CEMS)

SICK
Sensor Intelligence.



Technical data overview

Measured values	O ₂ , CO, NO, NO _x , SO ₂ , Ar, CBrF ₃ , CClF ₃ , CCl ₂ F ₂ , CCl ₃ F, CHClF ₂ , CHCl ₃ , CH ₂ Cl ₂ , CH ₂ O, CH ₃ Cl, CH ₃ OH, (CH ₃) ₂ O, CH ₄ , CO, CO ₂ , CS ₂ , C ₂ Cl ₂ F ₄ , C ₂ Cl ₃ F ₃ , C ₂ Cl ₄ , C ₂ HCl ₃ , C ₂ H ₂ , C ₂ H ₂ Cl ₂ , C ₂ H ₂ F ₄ , C ₂ H ₃ Cl ₃ , C ₂ H ₄ , C ₂ H ₄ Cl ₂ , C ₂ H ₅ OH, C ₂ H ₆ , C ₃ H ₄ , C ₃ H ₆ , C ₃ H ₇ OH, C ₃ H ₈ , C ₃ H ₈ O ₂ , C ₄ H ₆ , C ₄ H ₈ , C ₄ H ₁₀ , C ₄ H ₈ O, C ₄ H ₉ OH, C ₅ H ₁₂ , C ₆ H ₁₀ O, C ₆ H ₁₂ , C ₆ H ₁₄ , C ₇ H ₁₆ , C ₇ H ₈ , C ₈ H ₁₀ , He, H ₂ , H ₂ O, NH ₃ , SF ₆ , N ₂ O
Performance-tested measurands	O ₂ , CO, NO, SO ₂ , NO _x
Measurement principles	Cold extractive
Gas flow rate	30 l/h ... 100 l/h
Measuring ranges	CO 0 ... 75 mg/m ³
Ambient temperature	Indoor: +5 °C ... +40 °C Can be expanded on the system side if necessary Indoor with cooling unit: +5 °C ... +50 °C Can be expanded on the system side if necessary
Fulfilled standards	MCERTS
Enclosure rating	IP54: depending on analyzer and system configuration

Product description

The PowerCEMS50 continuous emission monitoring system (CEMS) was specially developed for measuring the emissions from fossil fuel power plants. The extractive basic system, which features an analyzer and a gas conditioner, is designed for measuring the typical gas components CO, NO_x, SO₂, and O₂. The PowerCEMS50 analyzer system is characterized by its compact design and attractive price/performance ratio, with no compromise in performance in industrial use.

At a glance

- Measures all typical exhaust gas parameters (O₂, CO, NO_x, SO₂)
- Equipped with a complete sampling system (sample gas filter, sample gas cooler, and integrated sample gas pump)
- MCERTS certified
- Tested according to EN 61000-6 and EMC and CE labeled
- Analog (4 ... 20 mA) or digital (Modbus) output of measured values

Your benefits

- High reliability and low maintenance costs
- Easy installation and fast commissioning
- Small footprint thanks to compact size
- Attractive price/performance ratio

Fields of application

- Coal, biomass or gas fired power plants (* not suitable for measuring emissions when burning contaminated biomass)

Ordering information

Other models and accessories → www.sick.com/PowerCEMS50

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com