



PowerCEMS100

High-performance, future-proof CEMS for emission measurement

CONTINUOUS EMISSION MONITORING SYSTEMS (CEMS)

SICK
Sensor Intelligence.



Technical data overview

Measured values	O ₂ , CH ₄ , CO, CO ₂ , NO, NO ₂ , NO _x , N ₂ O, SO ₂
Performance-tested measurands	O ₂ , CO, CO ₂ , NO, NO ₂ , SO ₂ , CH ₄
Measurement principles	Cold extractive
Gas flow rate	<p>≥ 60 l/h</p> <p>With bypass pump: ≥ 250 l/h For short response times</p>
Ambient temperature	<p>Indoor: +5 °C ... +40 °C Can be expanded on the system side if necessary</p> <p>Indoor with cooling unit: +5 °C ... +50 °C Can be expanded on the system side if necessary</p> <p>Outdoor: -20 °C ... +50 °C Can be expanded on the system side if necessary</p>
Fulfilled standards	EN 15267 EN 14181 MCERTS
Enclosure rating	<p>Indoor IP54: Can be expanded on the system side if necessary</p> <p>Indoor with cooling unit IP54: Can be expanded on the system side if necessary</p> <p>Outdoor NEMA 3R / 4: Can be expanded on the system side if necessary</p>

Product description

The PowerCEMS100 continuous emission monitoring system (CEMS) is an economically and technically perfect solution for extractive measurement tasks. This all-in-one system comprises high-quality standard assemblies and components and can be adapted to the application-specific requirements thanks to its modular system design. Retrofitting analyzer modules or gas conditioners is easy and inexpensive. The innovative PowerCEMS100 system is certified according to European standards EN 15267-1/-3 and EN 14181, and offers future-proof solutions for emission measurement and process applications.

At a glance

- Cold/dry extractive analyzer system certified according to EN 15267 and EN 14181
- Plug-and-play analyzer module with 24 V power supply
- Control unit for displaying all measured values and status information on one monitor
- External sensors can be connected via prepared interfaces

Your benefits

- Future-proof investment, as the system can be adapted easily to meet future needs
- Easy commissioning and trouble-free on-site approval of the measuring system by the responsible authorities
- Easy to maintain thanks to a clear separation of the electrical and analyzer components
- High availability due to easy and quick replacement of modules with CAN bus technology

Fields of application

- Gas-, brown-coal-, or hard-coal fired power plants
- Gas turbines as well as combined cycle power plants
- Emission monitoring for small or medium sized boilers

Ordering information

Other models and accessories → www.sick.com/PowerCEMS100

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