



MINESIC700 GHG

Reliable measurement of greenhouse gases for precise determination of emission taxes

CONTINUOUS EMISSION MONITORING SYSTEMS (CEMS)

SICK
Sensor Intelligence.



Technical data overview

Measured values	O ₂ , CO ₂ , CH ₄ , gas velocity, temperature, pressure, humidity (option)
Measurement principles	Cold extractive
Gas flow rate	Analyzer: ≤ 60 l/h Via automatic flow control
Measuring ranges	O ₂ 0 ... 25 vol. % CO ₂ 0 ... + 25 vol. % CH ₄ 0 ... + 100 ppm / 0 ... 100 vol. %
Ambient temperature	+5 °C ... +50 °C Can be expanded on the system side if necessary

Product description

The MINESIC700 GHG continuous emission monitoring system (CEMS) measures greenhouse gases in underground coal mines and calculates the resultant greenhouse gas emissions. It samples the gas and determines the concentration of the greenhouse gas components by means of NDIR spectroscopy. It also measures the gas flow rate using ultrasonic technology and determines the temperature, pressure, and moisture. In accordance with the applicable legislation, the results are then calculated and reported using a specially developed software package for recording and classifying data. By using the MINESIC700 GHG for monitoring purposes, the exact costs can be calculated, thus reducing tax contributions.

At a glance

- Reliable measurement with low measurement uncertainty.
- Automated switching between up to 5 sample points
- Software package for calculating and recording the total greenhouse gas emission
- Flow rate, pressure, and temperature measurement using IECEx Zone 1 devices
- Available as a standalone cabinet or integrated into MINESIC700 TBS

Your benefits

- Proven greenhouse gas measurement with reliable ultrasonic flow rate and gas measuring technology
- Precise measurement and reporting in line with legal requirements
- Reduced tax charges, as exact costs are calculated with minimal measurement uncertainties
- Low operation costs as the system is easy to operate and maintain
- No unexpected costs due to extensive service package including support options provided by SICK LifeTime Services

Fields of application

- Underground coal mines

Ordering information

Other models and accessories → www.sick.com/MINESIC700_GHG

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