



MINESIC700 TBS

The atmosphere must be just right

PROCESS GAS ANALYSIS SYSTEMS (PGA)

SICK
Sensor Intelligence.



Technical data overview

Measured values	O ₂ , CO, CO ₂ , CH ₄
Measurement principles	Cold extractive
Measuring ranges	<p>O₂ 0 ... 5 vol. % / 0 ... 100 vol. %</p> <p>CO 0 ... 1,000 ppm / 0 ... 40 vol. %</p> <p>CO₂ 0 ... 3,000 ppm / 0 ... 40 vol. %</p> <p>H₂O 0 ... 2 vol. % / 0 ... 40 vol. %</p> <p>H₂ 0 ... 1 vol. % / 0 ... 100 vol. %</p> <p>C_{ges} 0 ... 0.6 ppm / 0 ... 6,200 ppm</p>
Process temperature	≤ +1,750 °C
Ambient temperature	+5 °C ... +50 °C

Product description

The MINESIC700 TBS process gas analysis system (PGA) has been especially developed for monitoring the mine atmosphere in shafts and goafs in underground coal mines. The system extracts gas from different parts of the mine via specially designed polyethylene tubes that are connected to a powerful gas sample pump. The tube bundle analyzer system includes all relevant components also purge pumps, certified flame arrestors, and gas conditioning components. The gas sample is analyzed with approved NDIR gas analyzers and paramagnetic oxygen analyzers.

At a glance

- Certified according to IECEx and ANZEx
- Reliable, continuous measurement (24/7)
- Automated switching between modular expandable measuring points for up to 40 sites
- Automated alarm and alarm report
- Self-contained, transportable system

Your benefits

- Advanced alarm and alarm reporting system
- Increased mine safety as the long-term trends of the mine atmosphere at every measuring point are recorded
- Easy remote control from the central control room
- Low operation costs due to easy maintenance and tailored service packages
- Extensive service package including support options provided by SICK LifeTime Services
- Sound system knowledge thanks to comprehensive user training

Fields of application

- Underground coal mines
- Underground hard stone mines
- Methane extraction systems

Ordering information

Other models and accessories → www.sick.com/MINESIC700_TBS

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