TECHNICAL DATA SHEET

PIPE RUPTURE AND TIGHTNESS TEST

for Maximum Safety and System Reliability

The pipe rupture and leak tightness monitoring solution provides a significant increase in safety for gas supply systems and reliably protects against uncontrolled gas release. It reduces the risk of gas losses, safeguards personnel and equipment, and contributes substantially to the safe and efficient operation of industrial gas infrastructures.

By continuously monitoring the gas flow, critical deviations are detected at an early stage, preventing uncontrolled gas discharge in the event of a pipe rupture or major leak. In hazardous situations, the gas supply is automatically isolated, effectively avoiding dangerous gas concentrations in production areas and factory halls. This not only enhances occupational safety but also minimizes consequential damage and unplanned downtime.

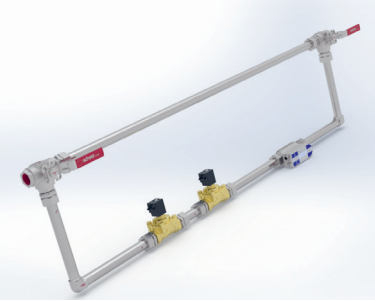
In addition, the integrated leak tightness monitoring enables automated and regular verification of ring main systems. Leakages, insufficient sealing, or open connections are identified reliably before they develop into safety-critical or costly issues. Operators benefit from increased process reliability and improved transparency regarding the condition of their gas distribution network.

The pipe rupture and leak tightness monitoring function can be implemented as an extension to gas analyzers or gas mixers, or as a stand-alone solution. Flexible parameterization and comprehensive event logging support safe, compliant operation and facilitate audits, documentation, and long-term quality assurance.

SPECIFICATIONS	
Total flow rate	2 – 250 m³n/h
Gas temperature	0 – +60 °C
Inlet pressure	16 bar (ü)
Pressure drop	max. 0,2 bar
Operating mode	continuous pipe rupture monitoring | time-controlled leak tightness monitoring
Configuration	stand-alone | integrated into gas mixer or gas analyzer
SYSTEM	
Dimensions	1400 × 350 × 100 mm (other form factors possible)
Weight	20 kg (may vary depending on configuration)
Degree of protection	IP40
Ambient temperature	0 – 50 °C
Ambient humidity	0 – 95 %rH, non-condensing
Process connection	depending on configuration
Power supply	100 – 240 VAC, 50 – 60 Hz, 1 A
Communication	LTE-Modem, USB, LAN

APPLICATIONS

Heat treatment	Refineries	Metallurgy
Chemical industry	New Energy	Energy sector
Petrochemical	Power to Gas	R&D



FEATURES

- CERTIFICATION
  automatic certificate generation
- REMOTE ACCESS
  monitoring | operation
- ALARM NOTIFICATION
  SMS and email alerts | relay contact | signal tower
- INDUSTRIAL CONTROL
  10.1" Touchscreen
- MONITORING
  pressure | flow