

Gas analyzer

SIRA CH₄ low





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Continuous measurement of trace amounts of methane in exhaust gases

The SIRA CH₄ low is a stationary indoor analyzer for real-time measurement of methane in low ppm concentrations in exhaust gases. The methane concentration is determined using an infrared Herriott cell.

Due to the new EU methane regulation, the measurement of methane in exhaust gases is becoming increasingly important. With the SIRA CH₄ low, this methane content can be determined reliably and quickly in various exhaust gases.

With its adjustable measurement frequency, extensive customization options, and virtually maintenance-free design, the SIRA CH₄ low offers exceptional versatility and reliability.

Measured variables SIRA CH₄ low (others on request)

Substance	Measuring range [mg/m ³]	Measuring variables
Tetrahydrothiophene (THT)	0-50	0.75 mg/m ³ or 10% of the measured value (whichever is greater)
Gasodor® S-Free	0-50	0.75 mg/m ³ or 10% of the measured value (whichever is greater)
Benzene	0-50	0.75 mg/m ³ or 10% of the measured value (whichever is greater)
Toluene	0-50	0.75 mg/m ³ or 10% of the measured value (whichever is greater)
Ethylbenzene	0-50	0.75 mg/m ³ or 10% of the measured value (whichever is greater)
Xylene	0-50	0.75 mg/m ³ or 10% of the measured value (whichever is greater)

Biogas industry

Monitoring of air-supported roofs in industry

Exhaust gas measurement technology for industry

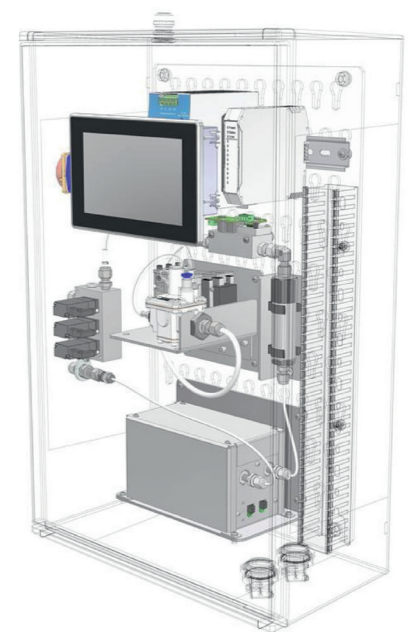
Technische Daten SIRA CH₄ low

Dimensions H x W x D (mm)	990 x 360 x 300, aluminum housing
Weight	Approx. 30 kg
Degree of protection	IP42
Operating temperature	0-40 °C
Ambient humidity	Max. 95% relative humidity, non-condensing
Fastening	Wall mounting, wall bracket included
Ventilation	2x active ventilation
Mains voltage (AC)	115-240 V
Display/Operation	7"-Touchscreen-Display
Hardware	Multiprocessor system with 32 GB memory, USB, Ethernet
Software	Embedded Linux operating system
Security monitoring	Ventilation function, pressure monitoring, flow monitoring
Gas inlet	Process gas, calibration gas, test gas
Gas connection	6 mm stainless steel clamping ring
Gas outlet	Exhaust gas
Process gases	H-/L-gases, hydrogen
Atmospheric pressure	860-1160 mbar
Gas inlet pressure	20 - 50 mbar
Gas consumption	max. 20 l/hour
Communication options	0/4 - 20 mA, digital output, relay, fieldbuses
Monitored substances	Methane
Measuring range	0-5000 ppm, higher concentrations available on request
Repeatability	2 ppm or 1% of the measured value
Analysis time	< 3 min.
Recommended calibration interval	12 months

Additional measuring ranges available on request.

Benefits

- Rapid detection of trace gases
- No cross-sensitivity to moisture
- Low-maintenance design
- Easy integration
- Durable components





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