Gas analyzer

SIRA UV THT

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Continuous measurement of odorant concentration in natural gas

The SIRA UV THT is a stationary indoor measuring device for real-time determination of the THT (tetrahydrothiophene) content in natural gas. The THT concentration is determined using UV spectroscopy.

Precise measurement of the THT content is necessary to ensure reliable control of the THT level in the natural gas network. The advantage of UV measurement technology lies in its high measurement frequency, which enables accurate control and close monitoring of the THT concentration.

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

Measured variables SIRA UV THT (others on request)

Substance	Measuring range [mg/m³]	Measuring variables
Tetrahydrothiophene (THT)	0–50	0.75 mg/m³ or 10% of the measured value (whichever is greater)
Gasodor® S-Free	0–50	0.75 mg/m³ or 10% of the measured value (whichever is greater)
Benzene	0–50	0.75 mg/m³ or 10% of the measured value (whichever is greater)
Toluene	0–50	0.75 mg/m³ or 10% of the measured value (whichever is greater)
Ethylbenzene	0–50	0.75 mg/m³ or 10% of the measured value (whichever is greater)
Xylene	0–50	0.75 mg/m³ or 10% of the measured value (whichever is greater)

UNION INSTRUMENTS

- Natural gas network industry
- Natural gas odorization
- Filter inspection during gas odor treatment

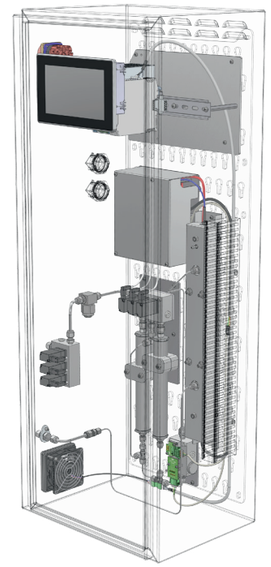
Technical data SIRA UV THT

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	Tetrahydrothiophene (THT)
Repeatability	0.3 mg/m³ or 2% of the measured value
Analysis time	< 3 min.

Additional measuring ranges available on request.

Benefits

- High measurement frequency
- Low-maintenance design
- Easy integration
- Durable components



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