

Products | Gas



Leak detection

The use of gas is as common today as electricity, water and telecommunications. An uninterrupted and safe supply is therefore essential. As well as offering high quality, SEWERIN measuring instruments are fully DVGW-compliant (German Technical and Scientific Association for Gas and Water):



EX-TEC® HS 680 · 660 · 650 · 610

Combination measuring devices for gas supply with integrated ethane detector

- Clear pinpointing, even of the most awkward leak positions in both indoor and outdoor pipelines
- This family of devices covers all DVGW applications and thus meets all the requirements of network surveying and on-call emergency services
- Selective infrared sensors for hydrocarbons and carbon dioxide
- Fast and highly-sensitive semiconductor sensor for the aboveground inspection of underground lines
- Three optional electrochemical sensors for oxygen and toxic gases
- Optionally available: ethane analysis can be integrated to distinguish between natural gas and swamp gas without any other accessories



VARIOTEC® 480 EX · 460 EX · 450 EX · 400 EX

Cost-effective combination measuring devices for gas supply

- Tried-and-tested sensor combination comprising catalytic combustion and thermal conductivity sensor for measuring flammable gases
- Cost-effective operation thanks to low procurement costs, high availability, low maintenance costs, and paperless inspection
- Fast and highly-sensitive semiconductor sensor for measuring extremely small amounts of gas in the ppm range; optimised for the aboveground inspection of underground pipelines
- Two optional EC sensors for oxygen and carbon monoxide
- Optionally available: ethane analysis can be integrated to distinguish between natural gas and swamp gas without any other accessories



PORTAFID® M3-K

Flame ionisation detector for the professional inspection of underground gas lines

- Automatic ignition when switched on/manual re-ignition possible
- Automatic zero point setting
- No cross-sensitivity to moisture, therefore quick response times and maximum efficiency during inspection
- Linear measurement behaviour



VARIOTEC® 460 Tracergas

The specialist for leak detection with tracergas and hydrogen

- Hydrogen (tracergas) detection at surface
- Concentration measurements in bar hole for pinpointing leaks
- Highly resistant to interference from moisture and methane
- Digital measurement value display
- Resolution 0.1 ppm



RMLD-IS

Revolutionary laser technology for remote detection of gas leaks

- Laser range up to 30 m
- Easy inspection of even hard to reach areas
- Exclusive detection of methane gas
- No cross-sensitivity with respect to other hydrocarbons



DP-IR™ (Detector Pac-Infrared)

State-of-the-art infrared measuring technology for gas pipeline testing applications

- Detection sensitivity of 1 ppm
- Optical sensor
- Selective to methane
- Mechanically robust
- Easy operation



EX-TEC® PM 4

Gas detection, gas warning, gas concentration measuring device

- The **EX-TEC® PM 4** is a measuring device for gas detection in the PPM range, gas warning in the LEL range and gas concentration measurement in the % vol. range
- Self-test on start-up
- Function menu for individual device adjustment
- Gas database with calibration for methane and other gases, e.g. propane, butane, hexane, nonane, hydrogen, kerosene



EX-TEC® SNOOPER 4

Explosion-protected gas leak detector for indoor installation and house tests

- For detecting the smallest leaks in installation lines and at connection points
- Available as a diffusion device or with a built-in pump
- Easy operation via three keys, can also be powered by battery
- DVGW-compliant (German Technical and Scientific Association for Gas and Water)
- Gas database with calibration for methane and other gases, e.g. propane, butane, hydrogen



SNOOPER mini

Gas leak detector for leak detection in indoor gas installations

- Reliably detects damage in home installations
- Available with methane (also with hand sensor), propane or hydrogen sensor
- Acoustic signal indicates leak; dependent on concentration and can be deactivated



MiniLec® 4

Measuring device for load testing, leak tightness testing and serviceability testing in accordance with TRGI and for regulator inspection

- DVGW-certified measuring instrument for inspections as per DVGW Code of Practice G 600 "Technical Regulations for Gas Installations"
- Easy to operate; software guides the user through the application and automates the measuring procedure
- Infrared interface for easy on-site documentation

LaserGasPatroller LGP 800

Gas detection vehicle for above-ground inspections of pipelines

- Dead reckoning – reliable pinpointing even in tunnels and street canyons
- Fully automatic control via **SeCuRI® SAT** – work with or without maps
- Export of all saved data (GPS points, leaks, etc.) including maps (pipelines, land registry data); e.g. KML format
- LGP 800 and GPS communication by Bluetooth or USB via just one COM port
- Fully automatic device check with up to two test gases
- Selective measurement of methane



Operator protection

Risks such as toxic gases, oxygen deficiency and explosive gases and fumes are not always picked up by the human senses. SEWERIN's measuring instruments are used to eliminate serious risks to people and the environment:



Multitec® 520

Versatile multiple gas warning device for workplace monitoring

- Versatile – can measure up to six gases simultaneously
- Selective infrared sensors for hydrocarbons and carbon dioxide
- Durable electrochemical sensors for oxygen and toxic gases
- Results of functional tests stored electronically in device



Multitec® 410

Multiple gas warning device with catalytic sensor and nonane certification

- Catalytic combustion sensor for measuring combustion gases
- Functional safety test for nonane (C₉H₂₀)
- Rapid charging in three hours
- Quick response times thanks to powerful pump



EX-TEC® PM 4

Gas detection, gas warning, gas concentration measuring device

- Find out more about this device in the **leak detection** section



EX-TEC® GM 4

Gas warning and gas measuring instrument for detecting toxic and flammable gases and oxygen

- Electrochemical sensors
- User can swap sensors
- Easy operation
- Adjustable alarm thresholds
- Function menu for individual device configuration



FLIS-EX / FLIS

Fresh air in the pit - inspect pits safely

- For ventilating shafts and enclosed spaces
- Two models available:
 - FLIS: 12 V=
 - FLIS-EX: 230 V~ / 50 Hz, explosion protection
- Exhaust fan with 20 m connection cable
- Flexible corrugated suction hose with intake strainer, approx. 3.3m long
- Flexible corrugated pressure hose without intake strainer, approx. 3.3m long



Multitec® 560

Combined gas warning and measuring device for monitoring processes and personal safety at landfill sites, sewage treatment facilities and biogas plants

- Find out more about this device in the **Analyse | Biogas** section

Installations

Finding the tiniest leaks in house installations is part and parcel of the day-to-day work of every plumbing and heating installer. Measuring instruments by SEWERIN are used to locate these types of leak:



EX-TEC® PM 4

Gas detection, gas warning, gas concentration measuring device

- Find out more about this device in the **leak detection** section



EX-TEC® SNOOPER 4

Gas leak detector for indoor installations and house tests

- Find out more about this device in the **leak detection** section



SNOOPER mini

Gas leak detector for leak detection in indoor gas installations

- Find out more about this device in the **leak detection** section



MiniLec® 4

Measuring device for load testing, leak tightness testing and serviceability testing in accordance with TRGI and for regulator inspection

- Find out more about this device in the **leak detection** section

Test technology

The importance of test technology for operational safety is continuing to grow. The DVGW Code of Practice G 465-4 and bulletins T 021 and T 023 of the BG RCI (German Social Accident Insurance Institution for the raw materials and chemical industry) describe the tests required for the various device classes. SEWERIN testing technology is used to ensure that our measuring instruments comply with the regulations:



SPE test sets

- From simple field test sets to convenient multigas applications
- Suitable for individual display tests and adjustments



Test gases

- Inspection devices with durability of up to 36 months
- Suitable for individual display tests and adjustments

Analysis | Biogas

Gas analysis is the basis for identifying critical situations and thus making the right investment decisions. Biogas analysis, for example, provides a timely warning of harmful changes in the gas composition, thus preventing prolonged outages. SEWERIN's measuring instruments are used for gas analysis:



Multitec® 540

Multiple gas measuring device with infrared sensors – optimised for biogas and landfill gas

- Ideal for use in waste disposal sites, sewage plants and biogas plants
- Selective infrared sensors for hydrocarbons and carbon dioxide
- Highly durable electrochemical sensors for oxygen and toxic gases
- Simultaneous concentration measurement of up to five gases
- Intuitive user guide



Multitec® 545

Multiple gas measuring device with infrared sensors and extended measuring range for hydrogen sulphide

- Ideal for use in palm oil plants and purification works
- Selective infrared sensors for hydrocarbons and carbon dioxide
- Highly durable electrochemical sensors for oxygen and toxic gases
- Electrochemical sensor for hydrogen sulphide with large measuring range (5,000 ppm)
- Simultaneous concentration measurement of up to five gases
- Intuitive user guide



Multitec® 560

Combined gas warning and measuring device for monitoring processes and personal safety at landfill sites, sewage treatment facilities and biogas plants

- Combined gas warning and measuring device
- Safe and automatic detection of explosive and toxic gases
- Calculation and documentation of gas composition of biological process gases using high-quality infrared measuring technology



Multitec® BioControl

Stationary combined measuring device with mobile gas measuring device

- Combined measuring device comprising stationary **BioControl 2, 4, 8** and a mobile gas measuring device, e.g. **Multitec® 540** or **Multitec® 545**
- Measurement of gas composition and gas volume at up to eight measurement locations
- Autonomous and regular saving of all measurement values and settings on USB stick
- Remote maintenance and diagnostics available via Internet

Would you like to know more about the devices and matching accessories? You will find more detailed information in the respective individual brochures or on our website www.sewerin.com.