Does your process involve modified atmosphere packaging (MAP)?

Our MAP solutions guarantee
certified safety for your packaging process.
Keyword: HACCP

ISO 22000 approval for food safety

CONTROLLED QUALITY OFFERS PEACE OF MIND

This security for your packaging process is provided with WITT MAP-solutions – certified according to ISO 22000 food safety standard.

As the market leader with decades of experience, WITT offers you Gas Mixing and Metering systems, Gas Analysers, Leak Testing equipment for packages as well as Ambient Air Monitors from a single source.

Rely on German Quality and local contacts worldwide.

WITT – THE NO. 1 IN MAP

The illustration of the packaging process on the right shows where WITT products provide quality and security.

GAS MIXER AND GAS FLOW CONTROL SYSTEMS

1 KM-Series

2 MG-Series

3 KD 100-1A

GAS ANALYSERS

4 OXYBABY® O_2/CO_2

5 PA O_2/CO_2

6 MAPY 4.0 $O_2/CO_2/N_2O/He$

LEAK DETECTION SYSTEMS

7 LEAK-MASTER® EASY

8 LEAK-MASTER®

9A MAPMAX (*Leak detection for single packages*)

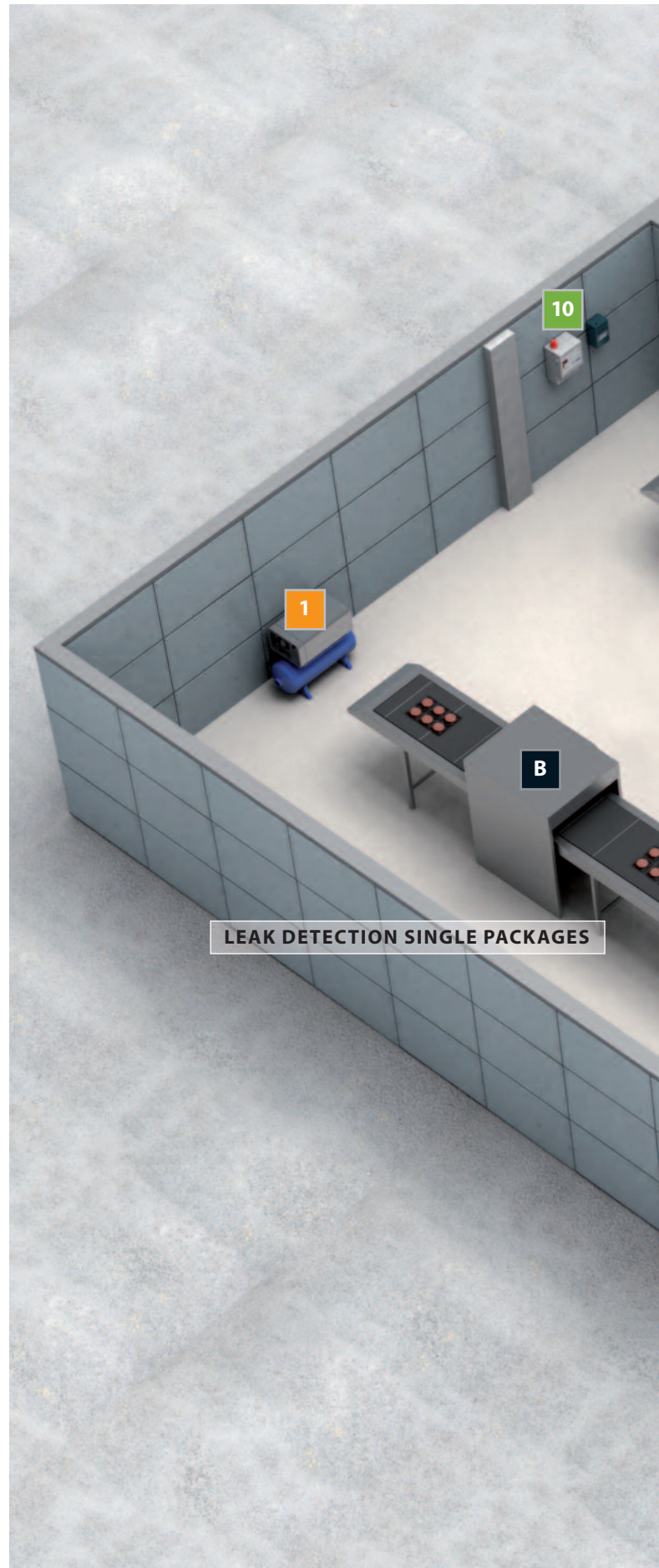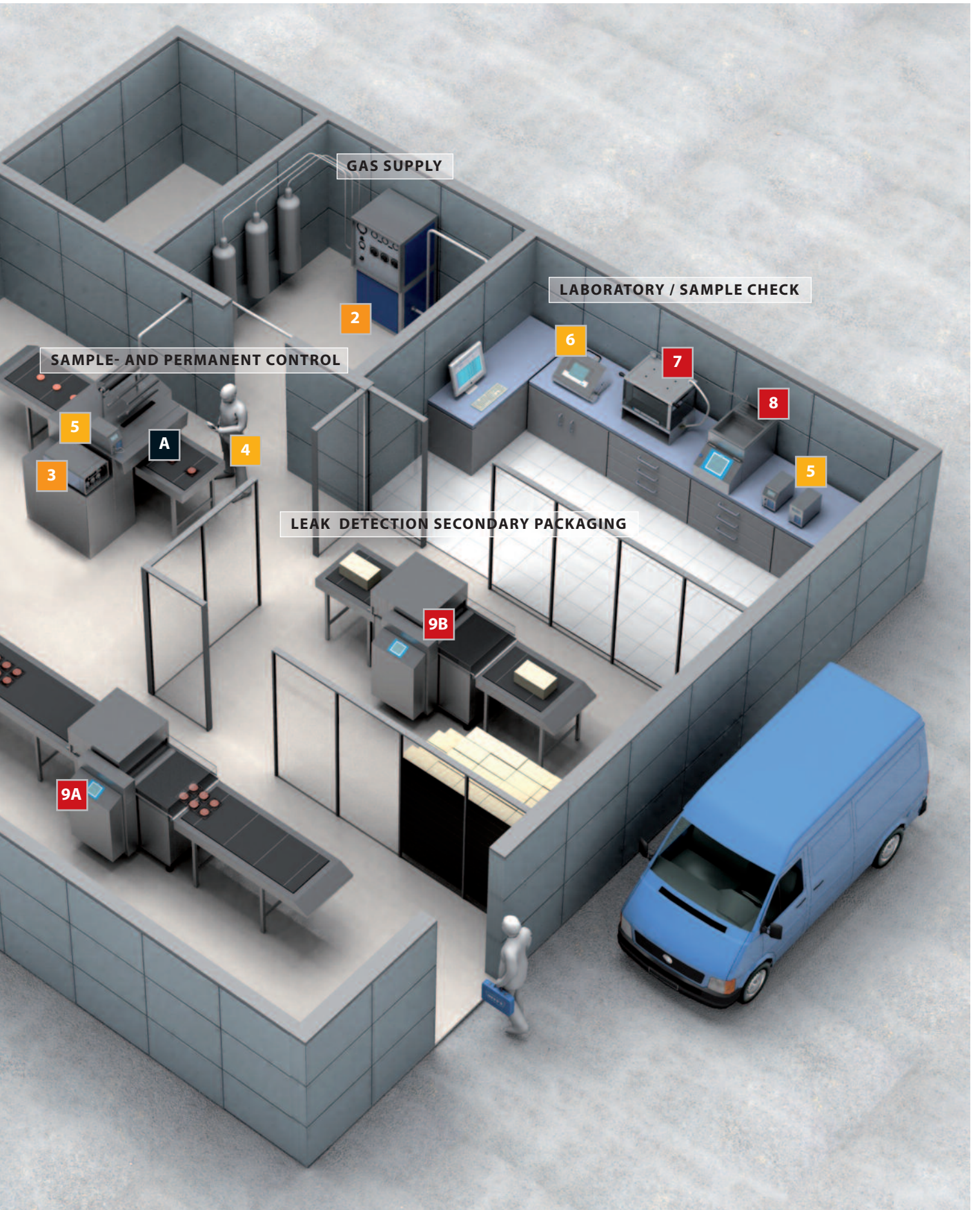**9B** MAPMAX (*secondary packaging, e.g. cartons, E2-boxes*)

GAS MONITORING

10 ROOM AIR MONITORING

Please find the explanation to each product and also the corresponding technical features and benefits in the chart on the following pages.

A FLOW PACK MACHINE

B VACUUM PACKAGING MACHINE

10

1

B

LEAK DETECTION SINGLE PACKAGES

GAS SUPPLY

2

LABORATORY / SAMPLE CHECK

6

7

8

SAMPLE- AND PERMANENT CONTROL

5

A

4

3

5

LEAK DETECTION SECONDARY PACKAGING

9B

9A

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▶ PRODUCT OVERVIEW

GAS MIXER AND GAS FLOW CONTROL SYSTEMS

PRODUCT	APPLICATION	FEATURES
1 KM-Series **2** MG-Series	Gas mixing systems for 2 or 3 defined gases, designed for a variety of applications, particularly for all areas with constant or varying mixed gas flow demands.	• Infinitely variable mixture settings ➜ • Proportional mixing valve for two gases with %-scale ➜ Individual mixing valves for three gases with %-scale • Gas mixture withdrawal from zero to max flow capacity ➜ • Integrated pressure equalization system ➜ • Splash-proof, robust stainless steel housing ➜
3 KD 100-1A	Electronic flow control system for modified atmosphere packaging (MAP) to suit flow pack machines in the food industry and for room atmospheres e.g. for the storage of fruit and vegetables. Total control of the O2 residual in the pack.	• Integrated O_2 analysis ➜ • Electronic control of gas flow to sensor ➜ • Threshold limit control with alarm relay contacts ➜ • Integrated pressure control ➜ • Splash-proof and robust stainless steel housing ➜ • Interfaces for documentation and remote transfer ➜ of settings and measured values

GAS ANALYSERS

PRODUCT	APPLICATION	FEATURES
4 OXYBABY® O_2/CO_2	Cordless hand held Gas Analyser for checking modified atmosphere packs (MAP). The ideal instrument for portable, faster and accurate sample tests at the packaging machine, in stores or in laboratories.	• Minimum sample gas requirement (approx. 2 ml) ➜ • Fast measurement ➜ • Ergonomic design ➜ • Large illuminated graphic-text-display ➜ • Integrated needle cover ➜ • Integrated data logger ➜ • Specific product names ➜ • Flow Control with alarm function ➜ • USB port ➜ • Multilingual menu guide ➜
5 PA O_2/CO_2	Compact Gas Analyser for checking and/or monitoring modified atmosphere packs/ packaging (MAP). For continuous analysis (in-line) and also intermittent sampling via a needle at the packaging machine, in stores or in laboratories.	• Minimum sample gas requirement ➜ • Threshold limit control with alarm relay contacts ➜ • Large illuminated graphic-text-display ➜ • Zirconia sensor for O_2 measurement possible ➜ • Integrated data logger ➜ • Specific product names ➜ • USB port ➜ • Continuous analysis or sample testing ➜ • Separate PC-software ➜ • Multilingual menu guide ➜
6 MAPY 4.0 $O_2/CO_2/N_2O/He$ reddot design award winner 2009	Premium Multifunctional Gas Analyser for checking and/or monitoring modified atmosphere packs/packaging (MAP). For continuous analysis (in-line) and also intermittent sampling via a needle at the packaging machine, in stores or in laboratories.	*Features see PA, plus:* • Large, clear colour touch screen ➜ • User management for up to 60 users ➜ • Administration of up to 1000 products ➜ • Auto run of the sample hold measurement ➜ • Data transfer via USB-stick or Ethernet connection ➜ • Flow Control with alarm function ➜ • Automatic checking ➜ • Pressure compensation ➜ • Electrochemical, Zirconia or Paramagnetic sensor for O_2 ➜

Product features may differ according to version

YOUR BENEFITS	OPTIONS
➜ Always the correct gas mixture ➜ Easy mixture adjustment without any complicated calculation ➜ All-purpose for large and small packages ➜ Protection against pressure fluctuations in the gas supply ➜ Easy to clean and hygienic	• Gas supply monitoring • Integrated analysis • Mixer mounted on a buffer tank • For flammable gases available as EEx-version with separate control cabinet • Remote control
➜ Reliability by permanent control of the O_2 concentration ➜ Optimal process reliability by self-control ➜ Direct alarm reaction avoids defective goods (by stopping the packaging machine) ➜ Protection against pressure fluctuations in the gas supply ➜ Easy to clean and hygienic ➜ Customer-oriented quality documentation	• GAS CONTROL CENTRE Software for data processing • Integrated printer for data documentation • Separate printer for data documentation • Zirconia sensor for O_2 measurement

YOUR BENEFITS	OPTIONS
➜ Ideal instrument for all pack sizes ➜ Result after max. 6 seconds ➜ Genuine one hand operation, plug and play ➜ Easy to read. All information at a glance ➜ User protection ➜ Storage of the last 500 measurements ➜ Practical classification of the measured values ➜ Prevention of incorrect results ➜ Comfortable connection to PC ➜ D, UK, F, I, NL, S, FIN, E, PL, RUS, JP, CN, H, TR	• Integrated barcode-reader • Bluetooth • GAS CONTROL CENTRE Software for data processing • Separate printer via Bluetooth for result documentation • Device for headspace analysis in cans/bottles • P version (for pressurised sample gas)
➜ Ideal instrument for all pack sizes ➜ Direct alarm reaction avoids defective goods (by stopping the packaging machine) ➜ Easy to read. All information at a glance ➜ Fast, precise measurement ➜ Storage of the last 500 measurements ➜ Practical classification of the measured values ➜ Comfortable connection to PC ➜ Flexible usage ➜ For documentation of the measured values ➜ D, UK, F, I, NL, S, FIN, E, PL, RUS, JP, CN, H, TR	• Vertical or inclined display • GAS CONTROL CENTRE Software for data processing • Separate printer for result documentation • Connection plugs • Different versions available: continuous analysis, sample testing and P version (for pressurised sample gas)
Benefits see PA, plus: ➜ Optimal information and easy to operate ➜ Personalisation of measurements ➜ Individual classification of results and limits ➜ For productivity and comfort ➜ Customer-oriented quality documentation ➜ High measuring accuracy ➜ High process safety ➜ Reliable steady measuring results ➜ The best measuring principle to suit the application	• GAS CONTROL CENTRE Software for data processing • Integrated printer for result documentation • Different versions available: continuous analysis, sample testing and P version (for pressurised sample gas) • Barcode reader • Fully automatic calibration • Special version for higher inlet pressures • As 19"-rack version

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▶ PRODUCT OVERVIEW

LEAK DETECTION SYSTEMS

PRODUCT	APPLICATION	FEATURES	
7 LEAK-MASTER® EASY	Leak detection systems for packages. The LEAK-MASTER® EASY features the detection of the smallest of leaks without the need for trace gases.	• No trace gas required in package • No electrical connections, operation using compressed air • Visual test • Testing of vacuum packages possible • Easy to use • Low maintenance • Perspex housing	➜ ➜ ➜ ➜ ➜ ➜ ➜
8 LEAK-MASTER®	Leak detection system for packages containing CO_2. LEAK-MASTER® features non-destructive testing of the smallest of leaks without the need for costly helium.	• Non-destructive testing • Large and clearly arranged touch screen • User administration • Data storage for over 6,000 measurements • Data transmission via Ethernet or WLAN • CO_2-based • Stainless steel housing • Various chamber sizes • Barcode reader (optional) • Multilingual menu control • Separate PC software	➜ ➜ ➜ ➜ ➜ ➜ ➜ ➜ ➜ ➜ ➜
9A MAPMAX *(Single packages)* **9B** MAPMAX *(Secondary packaging)*	In-line micro-leak detection system for packages containing CO_2. MAPMAX features non-destructive detection of the smallest of leaks without the need for costly helium – directly from the packaging line.	*Features see LEAK-MASTER®, plus:* • Fully automatic leak detection • Various chamber sizes • High operating speed (max 15 cycles/min) • 100 % automatic control of all packages	➜ ➜ ➜ ➜

GAS MONITORING

PRODUCT	APPLICATION	FEATURES	
10 GAS MONITOR	Gas monitoring system for the depletion of oxygen (O_2) and/or detection of carbon dioxide (CO_2)	• 3 alarm limits adjustable within the measuring range • Triple-digit display • Connections for alarm easily accessible on front • Continuous self monitoring • Separate control panel and transmitter • 4 channel control panel also available	➜ ➜ ➜ ➜ ➜ ➜

Product features may differ according to version

YOUR BENEFITS	OPTIONS
➜ Usable without modified atmosphere (MAP) ➜ Easy installation and operation ➜ Localisation of leak ➜ One system for all kinds of packages ➜ No special skills required ➜ Time and cost effective ➜ Easy to clean	• Different chamber sizes • Available for vacuum packages • Available for altitude simulation test
➜ Products remain undamaged and dry for further processing ➜ Optimal information and easy handling, no special skills required ➜ Personalisation of measurements ➜ For high measurement frequencies ➜ Customer orientated quality documentation ➜ No costly helium required ➜ Robust and easy to clean ➜ Testing of single packages, cartons or E2 boxes possible ➜ Avoiding operator errors and enhancing productivity ➜ GER, UK, F, E, FIN, I ➜ For documentation of test results	• Various chamber sizes • Documentation software GAS CONTROL CENTRE • Barcode reader • Barcode reader IP 65 • W-LAN (WIFI)
Benefits see LEAK-MASTER®, plus: ➜ Avoiding operating errors ➜ Testing of single packages, cartons or E2 boxes possible ➜ High productivity of packaging line ➜ No leaking packages are delivered to the customer – no costly returns	• Various chamber sizes • Reject system • Documentation software GAS CONTROL CENTRE • Barcode reader • Barcode reader IP 65 • W-LAN (WIFI)

YOUR BENEFITS	OPTIONS
➜ Individually adjustable alarm limits ➜ Permanent visual control ➜ Easily accessible, for easy installation ➜ High process safety ➜ Flexible installation for highest safety ➜ Monitoring of large areas	• Flashing beacon and sounder • Flow adapter for sensor check and calibration • Other gases on request

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◢ OUR PRODUCT RANGE

Gas Control Equipment

- Gas mixing systems
- Gas metering systems
- Gas analysers
- Leak detection systems
- Gas pressure vessels
- Engineering of customised systems

Gas Safety Equipment

- Flashback arrestors
- Non-return valves / check valves
- Quick couplers
- Safety relief valves
- Stainless steel devices
- Gas filters
- Pressure regulators
- Outlet points
- Lance holders
- Ball valves
- Automatic hose reels
- Test equipment
- Accessories
- Customised safety equipment

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