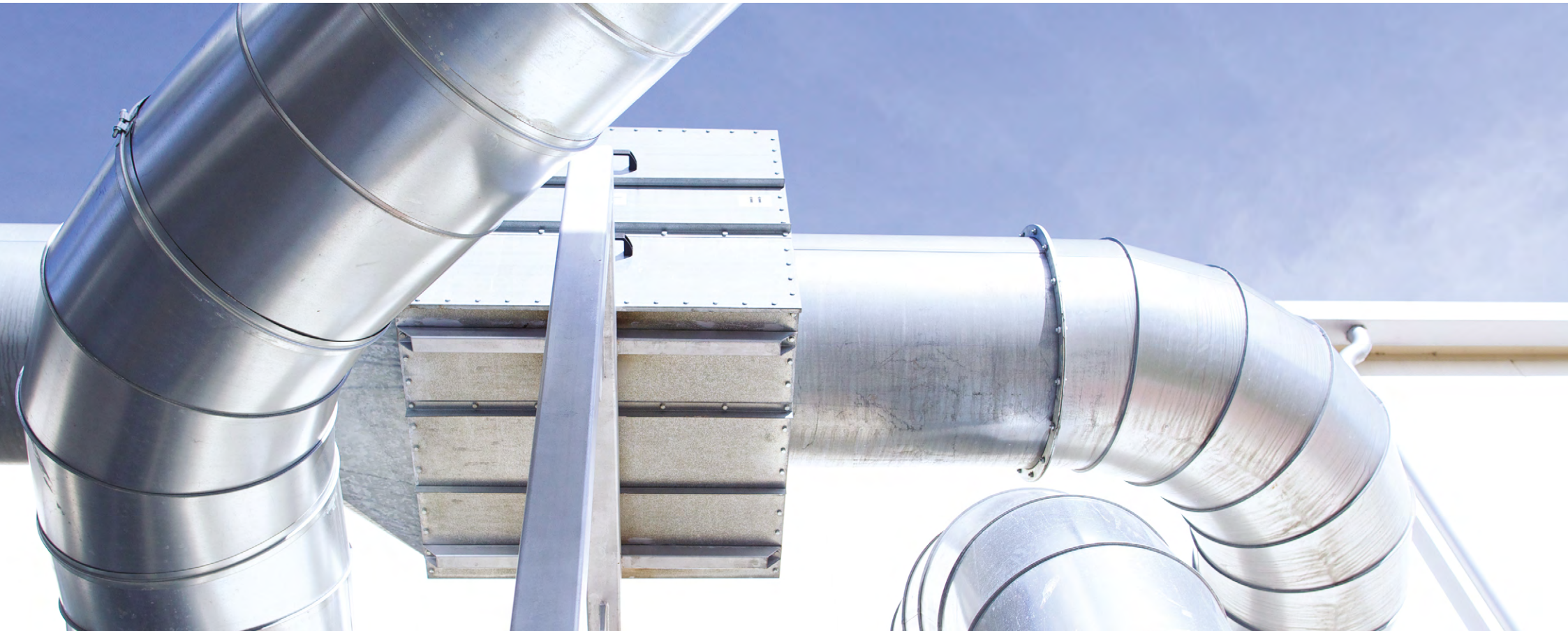


SAFETY SOLUTIONS IN CARBON CAPTURE PROJECTS



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CO₂ is an odourless and colourless gas, heavier than air and may collect in poorly ventilated areas or confined spaces in low level clouds replacing the oxygen, posing the threat of suffocation in extreme cases

Detection of CO₂ concentrations in work continuous area monitoring with fixed gas detection systems in extensive work areas, or temporary area monitoring with a portable gas measurement system during maintenance is mandatory to protect people at site.

PLANT SAFETY

SAFETY SOLUTION, MOVING SAFETY FORWARD

For fixed gas solutions we can accompany customers from the first consulting round to the engineered solution, the installation and finally the support to maintain the system to reach the best possible result for our customer.

In all phases the in-depth knowledge of the system engineer is as trusted advisor at your side. Depending on customer needs, FAT's, installations, commissioning, SAT or a customer training by our specialists can be part of our scope.



RELIABLE SAFETY PERFORMANCE

FIXED GAS DETECTION ELEMENTS

Stationary and mobile gas detection systems

Dräger PIR 7200

The robust Dräger PIR 7200 infrared optical transmitter is a specialist in the continuous monitoring of CO₂. It is SIL2-certified. Its activation can be configured individually. In fast mode, the PIR 7200 displays every measurable gas concentration in one second.



Dräger Polytron® 8720

The microprocessor-based Polytron® 8720 transmitter, which contains a new, innovative IR sensor with drift-free optics, can also be integrated into your digital fieldbus system, thus providing additional diagnostic functions.



Dräger REGARD® 3000

The Dräger REGARD® 3000 modular control system. Its multicolour status light signals the status of your gas detection system. The controller allows you to combine three different modules: Input, Relay and Gateway module. You can connect up to four analog transmitters and eight relays in combination.



PERSONAL PROTECTION

MOBILE GAS DETECTION AND PERSONAL PROTECTIVE EQUIPMENT



At levels above 5% concentration CO₂ is toxic to humans.

The course of injury breathing high concentrations of CO₂ is not the hypoxia (low levels of oxygen in your body tissues) but the intoxication of carbon dioxide.

Personal breathing equipment which are independent of the ambient air should be used to ensure safe work and safe escape.

MOBILE GAS DETECTION & PERSONAL PROTECTIVE EQUIPMENT

Dräger X-am® 5600

The Dräger X-am® 5600 is suitable for measuring up to six gases in the direct ambient air around the wearer. It reliably detects explosive, combustible, and toxic concentrations of CO₂, NH₃, and other gases and organic vapours. Another plus: poison-resistant IR sensors in combination.



Dräger X-am® 8000

The Dräger X-am® 8000 measures up to seven toxic as well as flammable gases, vapours and oxygen all at once — either in pump or diffusion mode. Innovative signalling design and handy assistant functions ensure complete safety throughout the process.



Dräger PAS Colt

The PAS Colt - is a short duration breathing apparatus (10, 15 and 20 minute) for escape, Entry or Airline Escape use. The ergonomic design and high resistance to friction as well as being impervious to water, chemicals and oils make an ideal choice for industrial applications.



Dräger Saver CF

The Dräger Saver CF constant flow Emergency Escape Breathing Apparatus allows safe, effective and uncomplicated escape from hazardous environments. Simple to put on and featuring practically automatic operation, this hood-based, positive-pressure breathing device can be used with minimal training.



SMART SAFETY

DRÄGER: TRUSTED ADVISOR FOR SAFETY AND GAS DETECTION

Dräger's experience in gas measurement technology, risk management and plant safety concepts takes organisations through the entire project - from greenfield planning through to installing and maintaining systems.



Document requirements and smart data analytics

As compliance requirements become stricter, organisations are required to maintain detailed records - for example of measured gas values or alarms - to demonstrate adherence to safety standards. Paper-based documentation and reporting are neither efficient nor often secure enough to demonstrate compliance.

In a bid to raise efficacy of documentation tasks and make use of the large amount of data generated, organisations are turning to solutions with smart data analytics. Data captured by gas detectors are processed in a single, automated workflow that takes care of record keeping, and turns raw data into valuable insight for operational safety. The digital records are more accurate and can be made available faster during audits. Predictions and improvements can be derived from data patterns. Impending failures can be prevented before they occur, for example, and leaks and defects can be detected before they lead to serious damage.

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