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Simply ingenious starts here



The new Atlan family



Safety to back you up while driving clinical outcomes

The new Atlan family combines robust, everyday reliability with state-of-the-art ventilation technology for increased patient safety and user ease. Anaesthesiologists can look forward to a wide range of innovative features focussing on patient care and intuitive functionality.

- Flexible screen layouts in combination with Dräger patient monitoring for an effective overview of patient conditions
- Intuitive decision support tools can help to make quick and informed decisions even in stressful situations
- Smart safety back-ups allow for continued ventilation even in case of gas or power supply failure
- RFID-based safety features that help prevent mismatch of breathing hoses and monitor exchange intervals of accessories

We make life easier for biomed and clinical staff

The Atlan family was designed around simplifying working procedures for both biomed and clinical staff to help them master every challenge. Built upon one brand new system architecture, Atlan is an innovative and flexible system that offers maximum efficiency both in terms of performance and cost.

- **All-round workstations** suitable for all patient categories, surgical procedures, and spatial conditions
- Unified “**know one, know them all**” user interfaces that let staff safely operate all devices across the OR and beyond
- **Tailored workstations** with highly flexible configurations, incorporating patient monitoring, IT, and third-party components, such as infusion pumps
- **High level of standardisation** with Dräger patient monitors and ICU ventilators eases fleet management, training, and support efforts
- **Quick upgrades** with features that address changing needs and current budget



Built-in lung protection

Atlan incorporates a system that protects the patient's lungs from unintentionally high tidal volumes and inspiratory pressures as well as other potentially harmful conditions.

Informed decision-making

Anaesthesia workstations tend to be overloaded with information, which can complicate making quick decisions, especially in stressful situations. Dräger decision support tools simplify the interpretation of complex data via easy-to-understand visualisations.

ICU-like ventilation performance

Uncompromising ventilation quality that helps reduce lung complications, leading to shorter hospital stays*.

- Active PEEP to maintain pressure during spontaneous breathing or if there is a leakage
- Excellent trigger sensitivity to ease spontaneous breathing
- Electronic piston ventilator to deliver highly precise Vt, even for neonates
- Vt delivery independent of fresh-gas flow (fresh-gas decoupling)

Safe low-flow anaesthesia protects lungs and budgets

Low- and minimal-flow anaesthesia humidifies and warms breathing gas to further protect lungs, while providing substantial savings in volatile agents and medical gases.

- Econometer provides visualisation of fresh-gas flow sufficiency
- Active heating prevents condensation and warms breathing gas
- Leak-tight breathing system reduces gas losses to a minimum
- Sample-gas recirculation eliminates gas loss found in traditional systems

Native decision support

Instead of displaying raw, complex data, Atlan supports clinical decisions in various situations using data calculation, interpretation, and visualisation.

- Econometer provides graphical indication if set fresh gas flow is sufficient
- Easy-to-understand indication of oxygen and anaesthetic agent uptake
- Ensure best practices can be followed with the display of gas consumption
- Assess the recruitment effectiveness with Dräger IACS monitoring

Depth of anaesthesia guidance with combined SmartPilot View®

Personalised titration of anaesthetic drugs is a challenge when a valid depth of anaesthesia measurement is missing. The addition of SmartPilot View to the Atlan workstation supports the process by calculating and visualising drug effects.

- Graphical, trended display of pharmacokinetics and effect-site concentrations
- 2D visualisation of combined effect of opioids and hypnotics (interaction)
- Depth of anaesthesia in one single value: Noxious Stimulus Response Index (NSRI)**

* Fernandez-Bustamante A et al., Postoperative Pulmonary Complications, Early Mortality, and Hospital Stay Following Noncardiothoracic Surgery: A Multicenter Study by the Perioperative Research Network Investigators., JAMA Surg. 2017 Feb 1;152(2):157-166. doi: 10.1001/jamasurg.2016.4065.

** Option to Atlan anaesthesia workstations requiring additional hard- & software



Bringing more efficiency and satisfaction to the table

Less hassle, more help – that's the motto behind the technology that went into the creation of Atlan. That's why clinical staff can expect convenient, intuitive, and secure handling, which will allow you to dedicate more time to the care of your patients.

Breaking the chain of infection

Breaking the chain of infection is an important step in preventing nosocomial infections. Each infected patient can cause additional costs of up to €17,500. Medical technology needs to support care providers in their goal of effectively reducing infections rates.

Free up your mind and time

Testing anaesthesia devices according to the manufacturer's instructions is crucial in helping prevent critical incidents. But frequently, lengthy and cumbersome procedures eat into valuable time. Atlan is different:

- Pre-test checklist enhanced by easy-to-understand illustrations
- Self-test procedure complies with guidelines of national anaesthesia societies (e.g. ASA and DGAI)
- Ready to go when finished. Full stop. Automatic self-test includes all relevant components
- No time-consuming checklists in instructions for use to run through after test

Know one, know them all

In an ideal world anaesthesia devices across ORs and even ICU ventilators would have the same operating concept. With Atlan we'll get there:

- Adopts the standardised user interface implemented into many Dräger devices across the OR and ICU
- Helps to reduce the risk of human error
- Reduces training time & provides quick access to information

Effective reprocessing by design

Striving to make standard cleaning processes effective is an attribute that is firmly anchored in Dräger's R&D. The result: reprocessing-friendly device components.

- Tool-free and quick disassembly of breathing system for increased compliance with hygiene SOPs
- Parts and materials designed to be cleaned and disinfected effectively
- Highly durable materials* to guard against breakdown from cleaning agents
- Smooth and rounded surfaces ease frequent cleaning/wipe disinfection

Dräger single-use consumables

Single-use consumables are the gold standard in preventing nosocomial infections. On the other hand, device performance also needs to be protected.

- Broad range of Dräger consumables helps to minimise the risk of infections
- Dräger consumables are tested to ensure optimal performance of Dräger devices
- Set2Go solutions offer customised packs consisting of single-patient-use accessories
- RFID-enabled accessories help comply with required change intervals



Digitalisation that connects people and possibilities

Connected technologies enable communication between devices while enhancing clinical efficiency and seamless patient data integration. The Atlan anaesthesia system provides full workstation capabilities with Dräger haemodynamic monitoring for immediate access to real-time and historical data, as well as hospital-wide information from networked clinical systems*.

Secure systems start with secure medical devices

Computer-based, networked medical technology is becoming an integral part of overall clinical care. As a result, hospital networks are increasingly becoming targets for dangerous and damaging cyber attacks. To combat this, the Atlan anaesthesia workstation was designed with absolute security in mind.

Continuous, networked patient monitoring

Atlan workstations with IACS patient monitoring provide seamless data availability and continuous patient monitoring.

- The mobile Dräger M540 patient monitor allows for uninterrupted monitoring, even during transport
- Continuous datastream from the IACS patient monitor into the hospital information system
- Dräger IACS cockpit provides a customised, well-organised view of patient monitoring parameters and is the central information hub

Your workstation can do more with RFID technology and IT

Improved data availability and patient safety:

- RFID accessories alert clinical staff of improperly connected breathing circuit hoses. Further RFID accessories keep track of expiration dates so parts will be replaced on time, supporting patient safety and budget control
- IT-applications and hospital information system data on widescreen displays deliver information directly to the point-of-care, optimising anaesthesia care

Cybersecurity guiding principles

We have implemented a secure development lifecycle to ensure security principles are included throughout all stages of development and maintenance. Our products:

- Are not shipped nor do they rely upon discontinued, unsupported, or vulnerable components
- Have no hidden backdoors, debug ports, or unnecessary software
- Are designed to receive security patches
- Protect critical functions from unauthorised access

Comprehensive security testing

To detect vulnerabilities throughout the R&D process:

- We partner with industry experts conduct independent penetration tests, threat analyses and vulnerability assessments
- We are transparent with product security information to support your risk management processes
- We are committed to a Rapid Response Policy whereby we assess emerging threats and publish a service advisory in a timely manner



360° Services

We at Dräger are committed to providing services tailored to the specific needs of your hospital in order to best support your efforts to drive clinical outcomes and to achieve your business goals. Therefore, our offering goes way beyond classical device maintenance and encompasses comprehensive services prior, during and after the installation of your devices.



Customised workplaces

via Pre-Installation Services:

- Consulting and planning lead to individualised, ergonomic, hygienic, and process-optimised workplaces
- ProfessionalService helps you to integrate patient monitoring and IT solutions optimally

Empowered users and ready-to-run workplaces

via Installation Services:

- In-service and training provide a solid knowledge base to use the system to its fullest potential
- On-site installation by qualified service technicians turns single components into a ready-to-run system

Scalable workplaces with maximised uptime

via Post-Installation Services:

- ProductService (Inspection, Preventive Maintenance, and Repair) from the manufacturer enlarges system availability and ensures regulatory compliant workplaces including service reports
- RemoteService allows quicker root-cause analysis to further increase uptime
- Upgrades and modifications allow scalability along the product lifecycle according to changing requirements

Intelligent aggregation of data for fact-based improvements

via 24/7 network-connected workstations and Network-Based Services

- Data analytics leverage the enormous treasure of aggregated clinical and device data, allowing you to identify areas for technical and commercial improvements
- Anaesthetic gas consumption reports can identify potential anaesthetic gas savings to reduce costs and protect the environment
- Device utilisation reports provide increased transparency on fleet status, device utilisation, and device history