Dräger

Data Analytics

Data Driven Solutions

Leveraging the power of data to increase efficiency and drive health outcomes in hospitals.

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DRÄGER CONNECT
Your platform for data analytics

When will you be ready to network your medical technology?

The possibilities of making every day clinical life easier with the help of digitalization are high. The networking of medical technology offers valuable potential from which many groups benefit holistically – doctors, nursing staff, patients and hospital management.

With Dräger Connect, we offer you an innovative platform* for data-based applications to provide you with sustainable support in the field of medical technologies.

In Dräger Connect, the technical logbooks of your Dräger products are regularly evaluated and the results are presented in a clear and concise manner in accordance with the desired issue.

With the constantly growing range of data analyses in Dräger Connect, you gain more transparency in everyday clinical practices. Benefit, for example, from the “Gas Consumption Analytics” and “Alarm History Analytics” applications and put together your own personal dashboard.

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ALARM HISTORY ANALYTICS

Enabling to reduce alarms at the point-of-care

Intensive care units as well as operating theatres are often exposed to high noise levels from acoustic alarms. Alarm History Analytics creates transparency and provides an overview of the alarms that occur**. On this basis, process sequences and personnel planning can be systematically optimized in order to increase the efficiency of the existing alarm management system and reduce stress for employees.

- Optimization of department staffing according to the alarm situation
- Review of the effects of measures to reduce alarm fatigue
- Ensure SOP conformity concerning alarm response times

TOO MANY ALARMS? WE ARE AT YOUR SIDE.

"Alarm Fatigue", i.e. the decreasing perception of alarms due to their enormous number, is one of the greatest dangers in hospitals. Studies have shown that an intensive care bed can have an average of up to 350 alarms per day.[1)] Of these alarms, 80-95% are clinically irrelevant.[2)] Up to 60% of alarms are not responded to, which is a source of risk for adverse events.[3)]

Dräger's specialists for alarm consulting are available to you as a competent partner for the prevention of "alarm fatigue". After a comprehensive initial analysis of your current alarm situation, we work with you in workshops to develop possible levers that can reduce the occurrence of alarms by adapting structural and technical conditions. If necessary, the success of the measures taken can be verified in a second analysis in order to further improve the status quo.

[1)] Jones, K. (2014), Alarm fatigue a top patient safety hazard. Canadian Medical Association Journal, 186(3), p.178
[2)] Association for the Advancement of Medical Instrumentation (2011). Clinical Alarms, AAMI 2011 Summit, p.13
[3)] Bridi, A. C. et al. (2013). Reaction time of a health care team to monitoring alarms in the intensive care unit: Implications for the safety of seriously ill patients. Revista Brasileira de Terapia Intensiva, 26(1), p.32

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GAS CONSUMPTION ANALYTICS

Providing insights into anaesthetic agent usage

Keep an eye on the consumption of volatile anesthetics. Gas Consumption Analytics provides you with comprehensive consumption data and costs as well as consolidated information on equipment usage**. We support you in performing anaesthesia even more efficiently. The targeted reduction of the fresh gas flow during anesthesia has three advantages:

- Clinical – maintenance of the body core temperature and avoidance of damage to the patient's respiratory epithelium through conditioned breathing gas
- Economical – savings due to reduced consumption of volatile anesthetics as well as oxygen, compressed air and nitrous oxide
- Ecological – reduction of the greenhouse effect through lower emissions of volatile anaesthetics

Structural and functional damages of the respiratory system can occur when ventilating patients with cold and dry gas.[1-3] Low- and minimal-flow techniques offer an effective yet easy way to humidify respiratory gas.[4-7] Due to the limited inflow of cold and dry gas they are suitable for maintaining the optimal temperature.[4]

With Gas Consumption Analytics you receive transparency about the flow settings being used. This provides your hospital with a foundation to implement patient protecting low and minimal flow practices. Reducing the consumption of expensive anesthetics helps you in reducing cost-per-intervention, while also minimizing the environmental impact of the anesthetics.

[1]Güldner et al. (2015). Intraoperative protective mechanical ventilation for prevention of postoperative pulmonary complications
[2]Gross et al. (2012). Humidification of inspired gases during mechanical ventilation
[3]Stone et al. (1981). Adult body temperature and heated humidification of anesthetic gases during general anesthesia
[4]Canet et al. (2010). Prediction of postoperative pulmonary complications in a population-based surgical cohort
[5]Branson et al. (1999). Humidification for Patients with Artificial Airways
[6]Bilgi et al. m(2011). Comparison of the effects of low-flow and high-flow inhalational anaesthesia with nitrous oxide and desflurane [...]
[7]Branson et al. (1998). Anaesthesia circuits, humidity output, and mucociliary structure and function

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We develop technology for life!

You, your patients and their relatives trust in this technology and, especially in a networked world, expect Dräger products to be protected against dangers and attacks that could affect the safety of your systems. That is why all data is only transmitted in an encrypted form via a secure connection. Furthermore, only device data are transmitted.

Dräger products should protect the data they manage, be resistant to unexpected input at any of their interfaces and have no hidden backdoors, developer interfaces or unnecessary software installed. Hackers' attack methods are becoming increasingly sophisticated. Our own product security team reacts immediately to current danger situations and advice from security researchers, evaluates them and makes public statements on a disclosure website.

Your cybersecurity is our priority!

*Subject to applicable terms of use.
** Subject to applicable terms of use. Requires compatible medical devices and additional IT infrastructure.

Interested? We would be pleased to inform you about our offers and make an appointment with you directly. You can call your Regional Sales Representative or you can use our contact form at www.draeger.com/contact
We are looking forward to seeing you!

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