

danmeter a/s - profile

Kildemosevej 13
DK-5000 Odense
Denmark

Allow us to introduce ourselves...

Danmeter
[Dan = Denmark]
[meter = measure]

Definition: a Danish company in the measuring business.

More specifically, a Danish company that specialises in the measurement of electric signals from the brain, muscles, etc. Signals that are converted into valuable information for professional users in the healthcare sector.

Finding Danmeter...

Based on an advanced, complex product development process, Danmeter's staff make and sell the equipment we develop. We do so from a central location in Odense, in the heart of Denmark. Odense is the geographical centre of Denmark with good infrastructure and easy access to Denmark's largest university hospital, the University of Southern Denmark, International Science Park Odense and more. The region's public and private organisations join forces in constructive and uncomplicated working relations that benefit the region, local enterprise and export.

Finding our partners...

Our products are distributed by Danmeter partners acting in territories typically parted in country territories. Our products are designed and cleared for installation with a global approach with a high priority for the local adaptation including local language support. Please contact Danmeter for information of the Danmeter partner close to you.

From weakness to strength...

Danmeter is a relatively small enterprise. In return we experience the daily satisfaction of having a highly dynamic, adaptable organisation and a strong faith in our joint competences. Perhaps this is precisely why we are capable – in spite of our size – of making our presence felt by developing new, more effective solutions for ideal drug dosage during the sedation process. We do so by teaming up directly or indirectly with international manufacturers of drug infusion and delivery systems and with pharmaceutical companies.

Our products must be entirely safe...

Danmeter's measurement methods in themselves do not expose people to danger or discomfort. This is a recurring ambition in our development. Our work must be performed to obtain new, necessary knowledge about methods for safer, more effective and cost-saving administering of anaesthetics.

The comfort to know...

Danmeter's know-how and technology assist doctors and nurses in administering anaesthesia and sedation with greater precision. The comfort to know the reaction and status of a patient by objective measures. Our technology increases the safety and quality of adequate (balanced) sedation. This saves time, medicine and money and reduces the restitution period after surgical intervention under an anaesthetic - benefiting the patient, healthcare staff and clinic. Tailor-made anaesthesia.

We measure brains and muscles...

Sine 1977, we have developed many unique methods and equipment under the auspices of Danmeter for measuring even very weak bioelectric signals from brain and muscles. Competences for the measure of bioelectric signals with a high signal quality are based on advanced signal processing and sophisticated artifact algorithms. The Danmeter family count members with different purposes and indications for use, but the (family) relation to the core competences are common in our solutions.

Knowledge and competency

As a result of continuous (further) development, clinical studies and validation of our equipment, we make sure – together with hospitals and specialists in Denmark and abroad – that we are among the very best in our field.

We market and disseminate our documented expertise through relevant, recognised journals and in trade-related contexts (such as conferences and trade shows). See Clinical Publications.

Sleep or pain...

Currently, the monitoring of anaesthetised patients only measures the degree of painlessness indirectly by monitoring the level of consciousness under the anaesthetic procedures.

When consciousness is suppressed by an anaesthetic into a sleeping state of sorts, the patient is also released from feeling pain. As a result, under ideal conditions, the patient don't perceive anything related to the surgical intervention as it occurs.

Limiting the painless state only to the surgical intervention itself has turned out to be a difficult task, however. The question remains: What is the proper balance under an anaesthetic so that it works when it should and the effect quickly subsides after the intervention is over?

The goal of everyone who works in this field should therefore be to optimise the medication during the surgery and adapt it to the individual patient and to the duration of the surgery.

This requires medication, methods and equipment that are jointly capable of being better at considering the diversity of human beings. How can we ensure that the effective range of a given sedation dose is not excessive? How and what allowances can be made for the fact that some people are more tolerant (requiring a bigger dose to achieve a specific effect), while others are by contrast more sensitive (requiring a smaller dose of the same drug to achieve the same effect)? How can allowances be made for the great variation that particularly exists among elderly and critically ill patients?

Danmeter seeks to find the answers to these and other questions – as well as the solutions.

Right now, the overall trend in this field is to find a more ideal combination of procedure and medication that should provide more benefits and fewer drawbacks. In this search we need as many objective measures as possible.

Technology that instils confidence...

In reality, a good, successful sedation is overly dependent on the administering anaesthetist. 'From master to student' is an integral element in the training of budding anaesthetists.

But it takes time and many, many procedures to impart 'the master's knowledge'.

At the same time, there are few areas where medical staff are given greater responsibility.

We also want to establish a greater feeling of security and comfort on this aspect of the anaesthesia as well.

Because even experienced anaesthetists can be in doubt: do all the traditional vital signs (tear secretion, reaction when spoken to and to stimuli) as well as blood pressure, pulse, temperature, etc., actually correspond to the sedation level and suppression of consciousness?

Danmeter's technology gives the technical staff a series of objective data that either confirm or deny that the administered sedation is having the desired effect. Dosage and time are interrelated: a little dose can quickly have a big effect, but the opposite can also occur.

Therefore, is it possible to get a fully up-to-the-minute 'snapshot' of a patient's sensitivity (feedback to stimuli) at all times? Is it possible for the dosage to be more accurate and appropriate? By answering these questions, an ideal plan for the patient's awakening can be made at the same time.

This provides security, peace of mind and perspective, while minimising the risk of error.

At the same time, it is easier for confident, calm medical personnel who fully trust their Danmeter equipment to impart this same confidence and peace of mind to the patients. The comfort to know.

Confidence and credibility...

The previous pages have described Danmeter – or rather our products perhaps, and not least the vision, mission and ambitions they reflect.

Our users and their patients must be able to identify with us and our products.

They will only do so if someone has told them this story.

If they value our knowledge and see the people behind our machines.

Because we do.

Because our technology and products are used wherever utmost confidence among people is essential. Wherever someone has to have unshakeable trust in the competency of another person.

At Danmeter, we are very aware of how we feel about delivering equipment that is a critical element in a process of trust between people.

This makes demands on our meticulousness and ability to constantly ensure that the quality and functionality of all our products meet the specifications.

That the medical staff can rely on our products, so the patients can rely on them.

We guarantee you that each and every Danmeter employee is aware of this responsibility.

That we have agreed to constantly ask the necessary questions:

"Has this solution been thoroughly and ideally tested? Is it safe and can we guarantee the desired effect? Can we stand by the product to the extent that we – without hesitating in the least – would accept having the equipment used on a member of our own family?"

Only one answer is possible to these questions: a loud and clear YES!

Not until then will we release a product or solution to the next stage of development.
And not until then will we again lead the way in finding the next limit to what is technologically feasible in our attempts to give medical personnel and patients alike a safer, more comfortable and secure anaesthetic procedure.