



The only thing you cannot
measure, is its potential

Lindab **UltraLink**

New technology for airflow and temperature measurement
without pressure loss in ventilation systems



We simplify construction

At Lindab we are driven by a strong desire to continuously generate improvements and to simplify construction. We do that by developing products and complete solutions that are easy to use and energy-efficient, together with industry-leading knowledge, support, logistics and efficient availability.

We want to simplify everything – from designing, ordering, delivery, goal achievement and installation to the entire way of doing business with us. By simplifying in every stage of the construction process, we also contribute to energy-efficiency.

Innovations which lead development forward

Innovation is at the core of Lindab's operations. The entire company is permeated by a deep entrepreneurial spirit and a desire to create improvements. With issues of the future such as simplification and energy efficiency high on our agenda, we are continuously developing and

A good thinking company

Good thinking is a deeply rooted philosophy that guides us in everything we do. We firmly believe that good thinking makes good solutions to the challenges we all face. Taking responsibility for what we do and how we do things is therefore important to us. Because good thinking is not only about making life easier and more comfortable for our customers and end users. It is also a matter of thinking in a global perspective, all the time. Knowing that we at Lindab are helping to make the world a better place.

launching patented technological solutions that are driving development forward. A large proportion of Lindab's innovative ideas are the result of close collaboration with different customers and with the people who live and work in our buildings.

Old habits consume unnecessary energy

Large pressure drops in ventilation systems have been a problem for a long time. We have to work continuously to minimise the drop in pressure to obtain more efficient systems. Some of the pressure drop is due to measuring devices which have parts into the air flow. Measuring devices have been required to measure the air flow which create unnecessary pressure drops in the systems, and which simultaneously collect dirt and are consequently not very accurate. To compensate for this, ventilation systems are often overdimensioned, with a larger air handling unit and higher energy costs as a result.

In other words, the measuring devices with obstacles into the air stream that are currently used entail higher costs to run, clean and maintain the system – simply to ensure that the system is functioning properly and displaying the correct values. This is both time consuming and costly for you. And moreover, unfavourable for the environment.

According to the EU's climate goals, energy consumption must be reduced by 20 per cent by 2020. As energy consumption is still far too high, new technologies and better solutions are required to achieve this target.

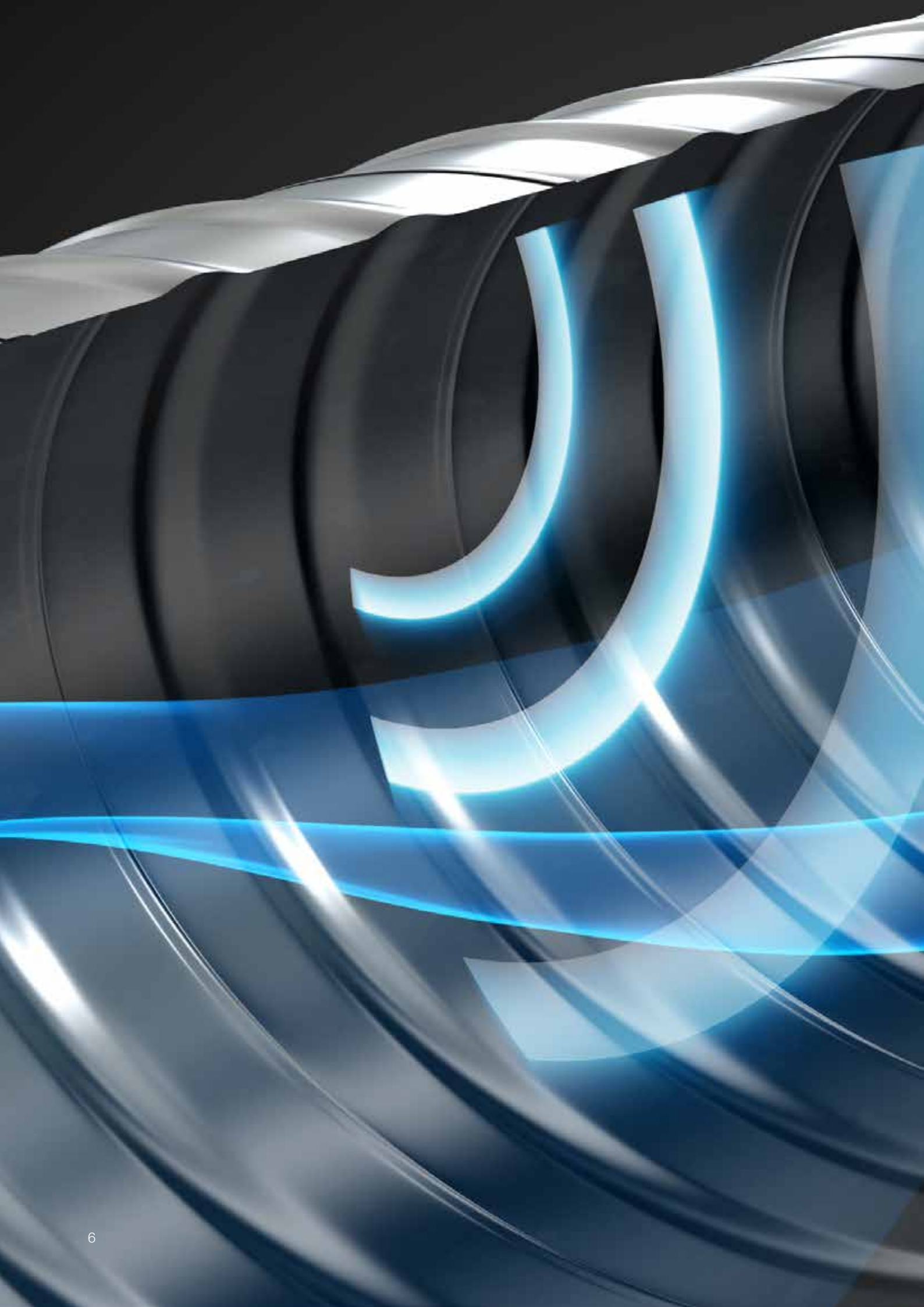
New technology for airflow and temperature measurement without pressure loss in ventilation systems

An increased focus on energy saving has meant that ventilation systems with low volume flows have become increasingly common. This, in turn, has created a need for measuring instruments and methods which guarantee high accuracy even with low flows.



This requirement is met using UltraLink.





Discover UltraLink

- a new innovation for an optimum indoor climate

At Lindab our aim is to always create improvements which make things simpler for our customers. Furthermore, we take responsibility for a sustainable and healthy environment. We have therefore developed a new solution which is entirely in line with the climate goals. A new technology which has the potential to revolutionise the entire ventilation industry.

UltraLink provides an exact measurement of the entire airflow area without causing pressure loss in a ventilation system. A unique and energy-saving method of measuring airflow and temperature with multiple applications within the ventilation industry. The technology is based on ultrasound sensors, which means there are no obstacles in the air stream on which dirt can collect. Instead, you get uninterrupted airflow without pressure loss, offering unique benefits in terms of energy efficiency, simplicity and cleaning.

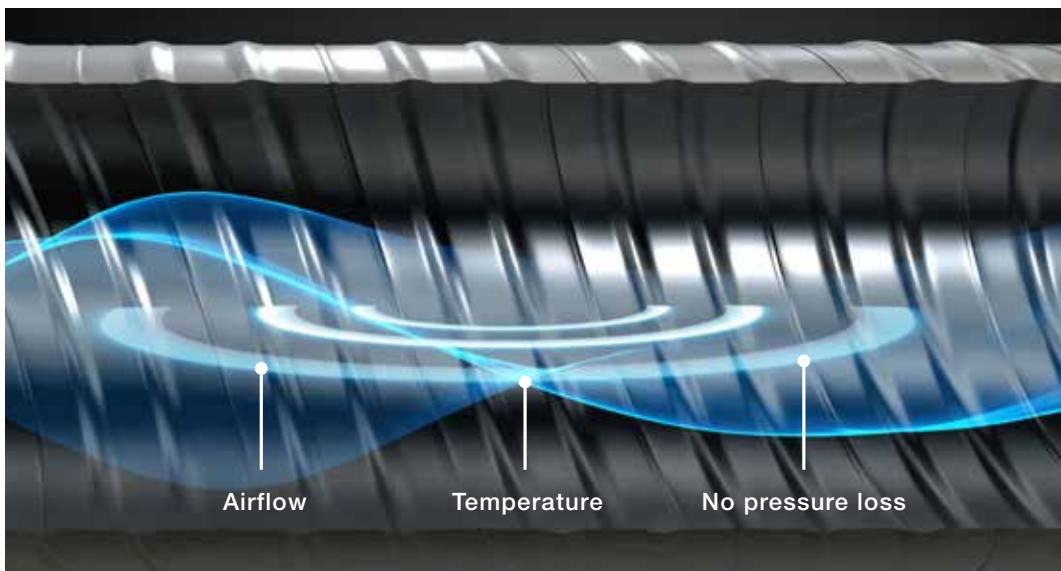
Lindab aims to constantly create improvements and search for new innovations. With passion and knowledge, we are continuously increasing our initiatives in relation to new patents.

UltraLink is one of them.

**Patented
Technology
by Lindab**

Ultrasmart benefits

- Exact measurement of the entire flow area including at low flow rates of $\pm 5\%$ down to 0.5 m/s (or ± 1 l/s depending on which is biggest)
- Reliable as it always produces a measurement value
- Can communicate with Building Management systems
- Requires minimal cleaning, which saves both time and money
- Can be installed with or without display electronics
- Shows correct flow, temperature and speed directly in the display







The only thing you cannot measure is its potential

UltraLink comes with a host of direct and indirect benefits. But its real potential cannot be measured.

In the indoor climate solutions of the future, UltraLink will be seen as an important component, as its properties enable energy benefits that are in line with climate goals and that contribute to achieving them.

Imagine...

An office property that is as big as half a football pitch. Suppose that this property's ventilation system had to have about fifty measuring units with parts into the airflow. These would have to be cleaned regularly to function properly. How much would it cost you?

The measuring units would in turn collect dirt and dust. To compensate for the drop in pressure the system is overdimensioned and would therefore also need a larger unit that consumes more energy.

What if...

Instead, in the same installation, you could have UltraLink which eliminates pressure falls and contributes to less oversizing of the system as UltraLink measures correctly even at low flows.

Imagine if you could also have a smaller unit that is more energy efficient.

And that the total difference would deliver benefits such as lower energy consumption, no drop in pressure and reduced costs.

What would it mean for you?

Discover the potential of UltraLink.





Good Thinking

At Lindab, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate – and to simplify the construction of sustainable buildings. We do that by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do that by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. That means less carbon emissions in nature and less energy wasted.

We simplify construction