



Lindab Pascal System Management

Connecting the dots in your ventilation system

Why you need to control the air

- and how to do it

Managing a building has turned into a complex endeavor. Not only is the demand for data, control, and constant optimization increasing by the minute – the demand for optimal indoor climate in every room is also an expectation rather than a wish.

Good ventilation starts with quality ventilation products and designing a system that ensures that all rooms in your building have the optimal indoor climate.

Demand controlled ventilation serves as the strong foundation - put Lindab Pascal System Management on top, and you get full control of your indoor climate and its energy consumption. It's time for easy operations.

- Full control
- Excellent indoor climate
- Low energy consumption
- Optimal operations in every room
- Self-regulating according to demands



Excellent indoor climate

- every single day, in every single room

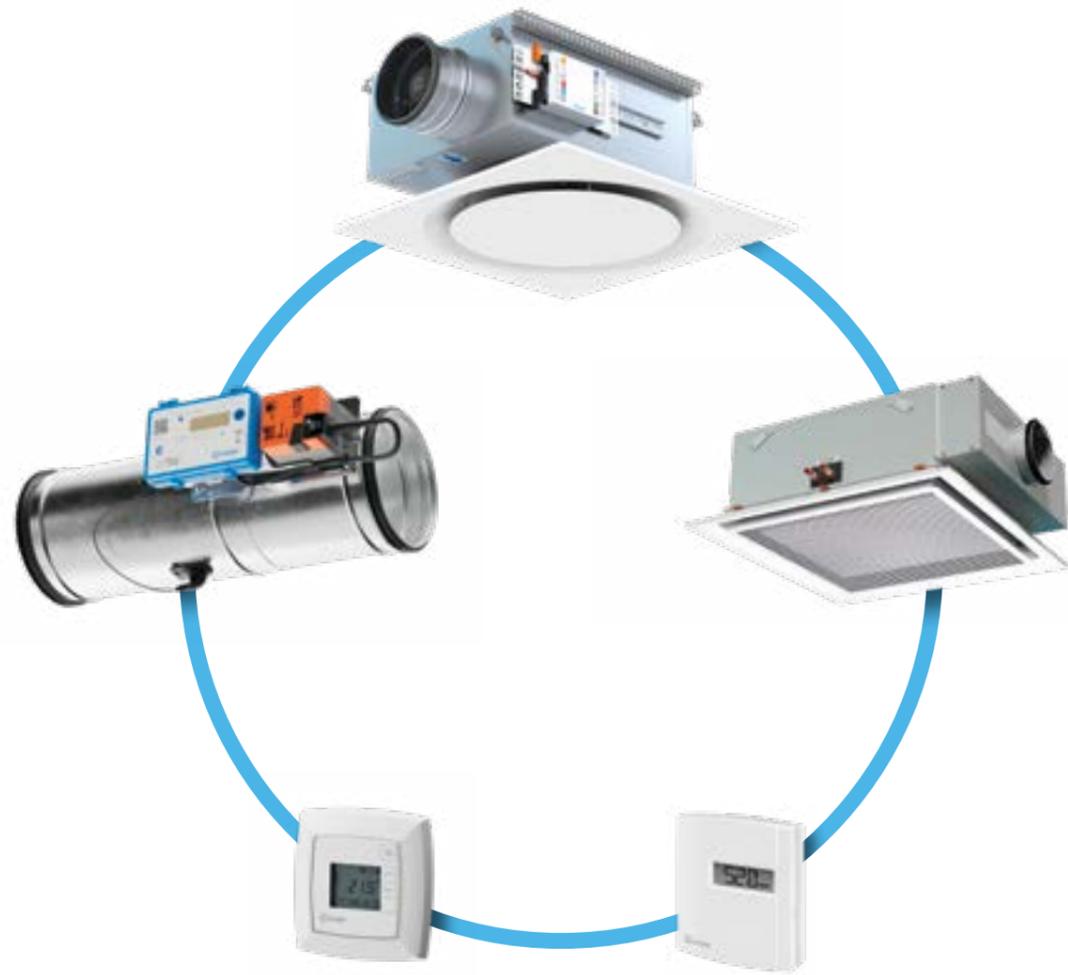
Why is it important that you prioritize ventilation?

If your ventilation system is not demand controlled already, this is where you need to start. Ventilate where there are people and run on standby ventilation where there are not. This means, ventilate room by room and area by area to ensure optimal use of energy at all times.

When you regulate according to presence, ensure well-balanced CO₂-levels, and fit the temperature to the end-user's preferences, you obtain a healthy indoor climate and in turn, keep productivity up.

Lindab is a market leader within both air and water ventilation and offers an innovative approach to ventilation, where high-end components communicate in intelligent systems.

So, whatever you need, Lindab has got you covered.



We have powerful components

- for the optimal indoor climate

With high-end ventilation components, whether it's air or water components, the right sensors and the right control setup connected at room level, you have all you need to ensure the optimal indoor climate – for all needs, in all spaces, at all times.

- Pre-programmed room controller
- Regulate according to temperature, presence PIR, CO₂, and humidity
- Accurate air flow regulation
- Regulate both ventilation, cooling, heating, and lighting



Go further and get full control

- with Pascal System Management

With Pascal System Management you can finally break with the hassle of normal ventilation management issues such as several regulating and controlling points scattered out in the building. Or even worse, no control options at all, leading to uncertainty about the ventilation performance in general.

With Lindab Pascal System Management you outsource

the complexity to a high-end technological system that will do the thinking for you.

It's time to connect the dots between ventilation components, and get one access point to all ventilation related matters.

It's time for Pascal System Management.

The dot by dot data collector

- Regula Master

Regula Master is the brain of the system. It is a small and compact preprogrammed system controller with software especially designed for controlling more in a smart way.

Regula Master makes it possible to connect all room control components and make them work as a unified system - it's simply the dot by dot data collector.



Matched to scale

- large or small - one system fits all

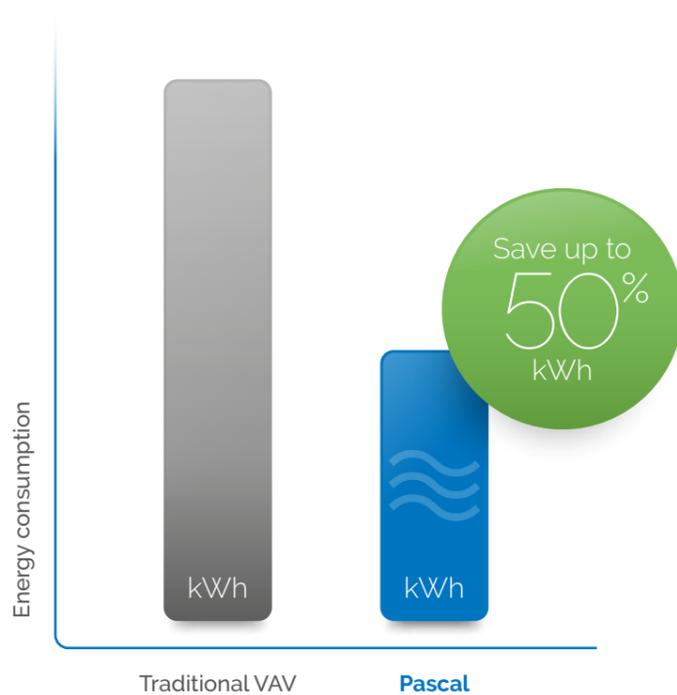
Flexibility is king, when it comes to ventilation inventions and we at Lindab strive to be top of class in every aspect of our industry, including adaptability.

That is why we have ensured that Pascal System Management is connectable to Lindab Regula systems and can be fitted to small and large buildings, part of a building, or even huge establishments such as hospitals, hotels, and schools.

Performance enhancing features

An all-encompassing system, with high quality components and Pascal System Management, will give you next level demand controlled ventilation.

But that's' not all. To deliver top-of-class indoor climate, we have integrated intelligent features into Regula Master - perfection is in the detail.



Fan Optimizer

Thanks to our integrated Fan Optimizer, you run at lowest possible fan speed according to actual demands and minimize pressure by opening VAV dampers as much as possible. That results in up to 50% lower fan energy consumption compared to constant pressure fan control.

Operating Control

With the intelligent Operating Control, you receive communication verification during the commissioning phase, system surveillance for stable operation and different alarms that are visualized in Pascal Operate and even available for your BMS.



Extract Balance Control

The setup of balance between supply and extract air on room or zone level has never been easier with Extract Balance Control. Avoid accidental imbalance between rooms and compensate for external extract or supply air flows to ensure perfect balance in your building.

Control even more...

- Alarms and handling
- Inspection mode
- Pressure limiter
- Night cooling
- Outdoor air cooling
- ACB free cooling optimizer
- Override control





Pascal Operate

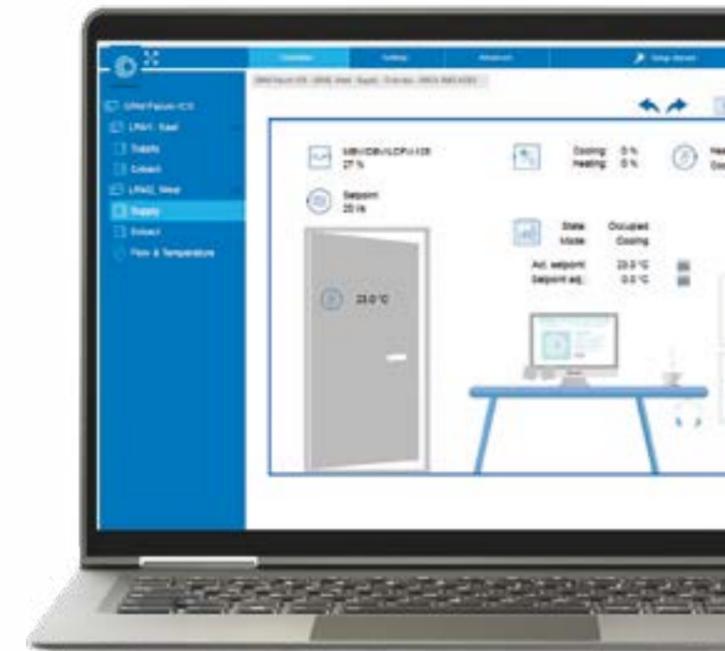
- interface simplicity

Pascal Operate connects all ventilation data in a comprehensive, visual overview. An intuitive hands-on tool that gives you a live status and full control.

It has been developed to ensure that your ventilation system can be set up, run and interpreted in a user-friendly way.

This high-end intelligent overview, displays detailed measurements and data at three different levels: room, section and building level. You now have the most comprehensible tool to make the work of configuration and commissioning as simple and efficient as possible.

Pascal System Management will make sure you get excellent room comfort, reduced energy consumption and full ventilation control.



With Pascal Operate you get

- Easy commissioning and setup of all rooms
- Detailed overview on system, section and room level
- Predefined parameters based on Lindab's recommendations for optimal indoor climate
- Alarms for system communication and malfunctions

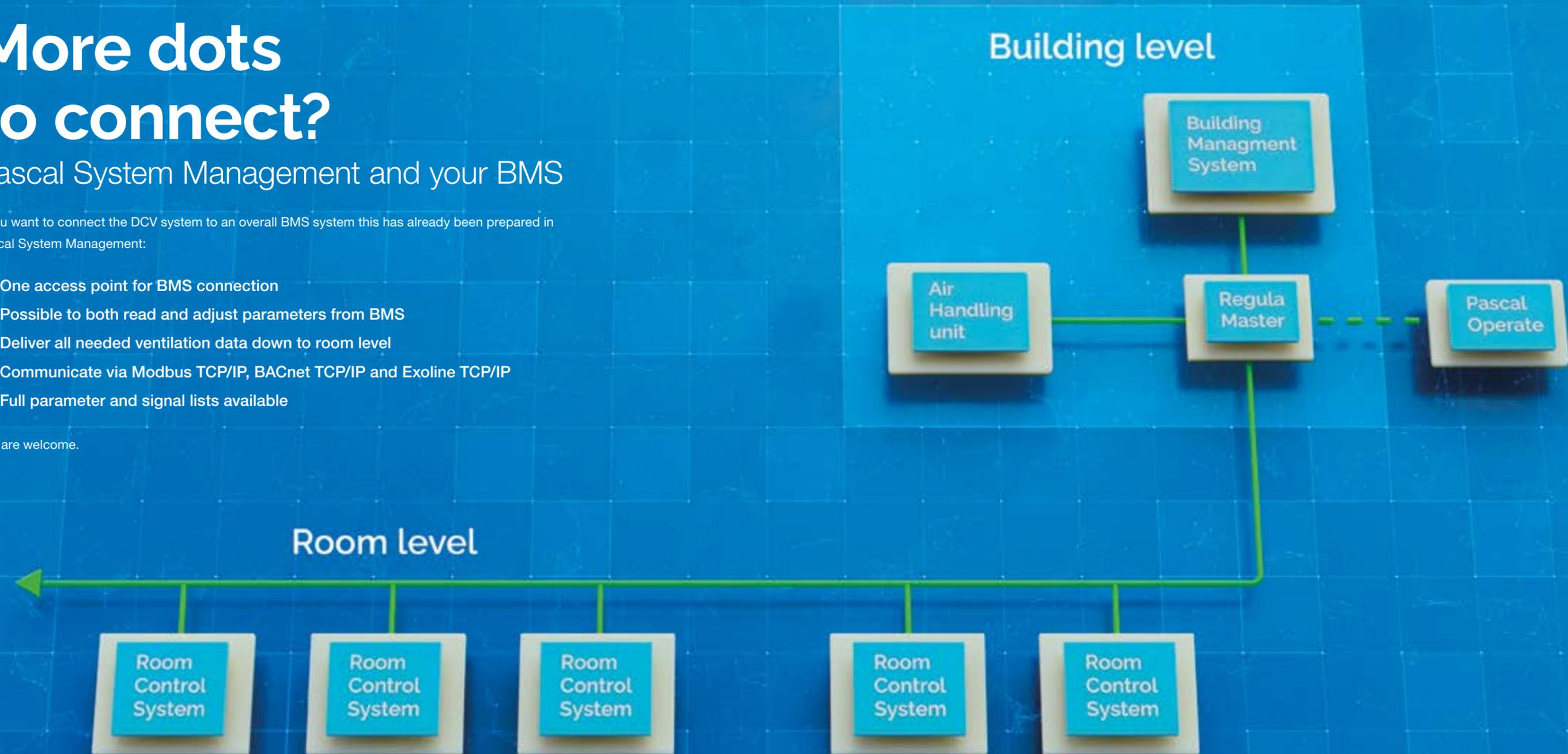
More dots to connect?

Pascal System Management and your BMS

If you want to connect the DCV system to an overall BMS system this has already been prepared in Pascal System Management:

- One access point for BMS connection
- Possible to both read and adjust parameters from BMS
- Deliver all needed ventilation data down to room level
- Communicate via Modbus TCP/IP, BACnet TCP/IP and Exoline TCP/IP
- Full parameter and signal lists available

You are welcome.



Let's connect

- and increase your return on investment

With next level DCV components from Lindab that are set-up and designed as room systems and connected to Pascal System Management, you will have full circle ventilation control.

This will come back full circle in terms of reduced costs, increased comfort for your workforce, simpler operations, fast support, and provide a significant source of data for continuous ventilation improvement.

Full circle benefits

- Monitor and control the performance of your ventilation system
- Monitor and control both ventilation, cooling, heating and lighting based on the actual demand in each room
- Lower your energy consumption with optimized fan control
- Connect it to both air and water systems
- Prepared for connection and communication with overall BMS
- One access point to your entire ventilation system
- Profit from all the Lindab expertise encapsulated in an intelligent system

Connect with your Lindab contact today

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Connect to a better future

- reduce, reuse, and refresh

At the end of the day it all comes down to one word: Sustainability.

Sustainability in terms of energy savings, reuse of materials and component parts, creating a sustainable workforce with a healthier indoor climate, which, in turn, raises the productivity of the people inside the building, resulting in a sustainable business.

How do you achieve full circle sustainability? Pascal System Management.

Because you have complete overview and control of the entire ventilation system, you can regulate each room to correspond to the needs. With all unnecessary energy consumption eliminated, you can save at least 50% energy compared to traditional VAV systems, and as much as 80% compared to Constant Air Volume systems.

Less energy consumed means reduced CO₂ emissions which is a great leap into a greener and more sustainable future.



Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

[Lindab | For a better climate](#)