

### ПРЕДПРИЯТИЕ МАКСАЭРО

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# Система управления SchwankControl Touch

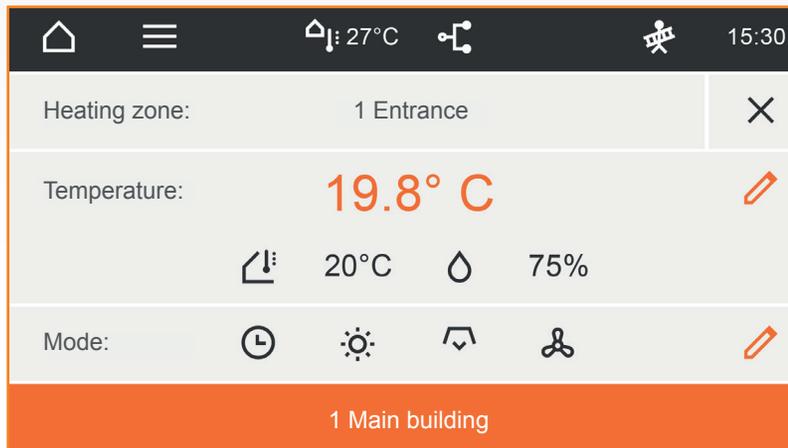


# Transparent information of your heating system.

## Data processing is the basis of each efficient heating control system.

Modern heating systems from Schwank offer the possibility to gather and analyse a broad variety of information on their status, their performance or their current consumption. These data are of major importance when it comes to an efficient heating operation.

To intelligently use these gathered data the Schwank engineers developed a control system, which merges and analyses all information in real time and depicts them in a transparent and intuitive manner.

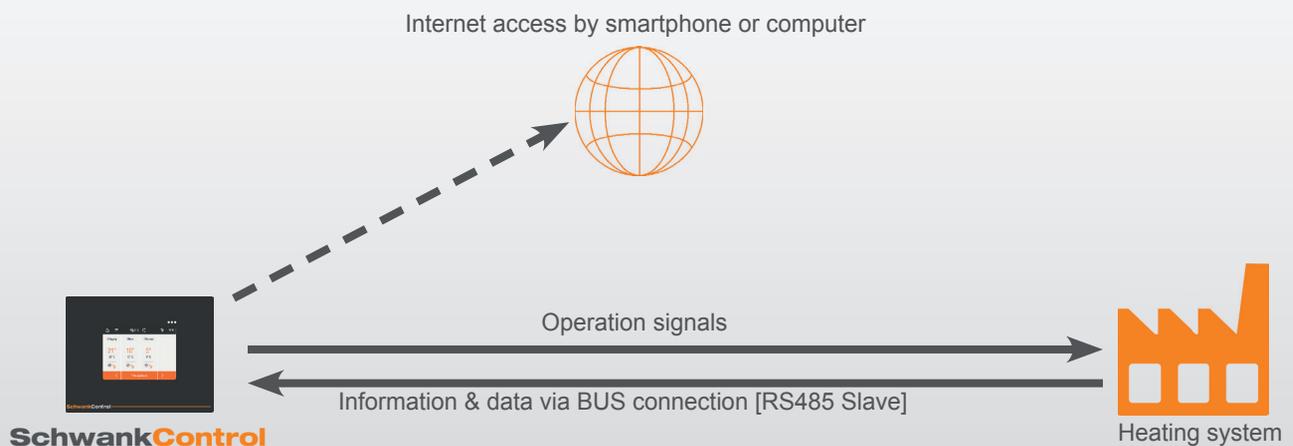


SchwankControl user interface: all major information at a glance

## Optimised Maintenance through internet access and BUS interface.

To sustainably ensure an efficient operation of your heating system, maintenance plays an important role. Here **SchwankControl** also offers a major advantage: thanks to its BUS connection to each heater in your facility, **SchwankControl** immediately indicates when there is something wrong. Thereby downtimes can be minimised.

Apart from the ModBUS interface **SchwankControl** additionally offers an internet connection. This gives you the chance to globally access your heating system. Thereby you can flexibly react to new circumstances and adjust the settings of your heating system - even without being on site. This makes **SchwankControl** the ideal control system, not only for facility operators but also for energy contracting providers.



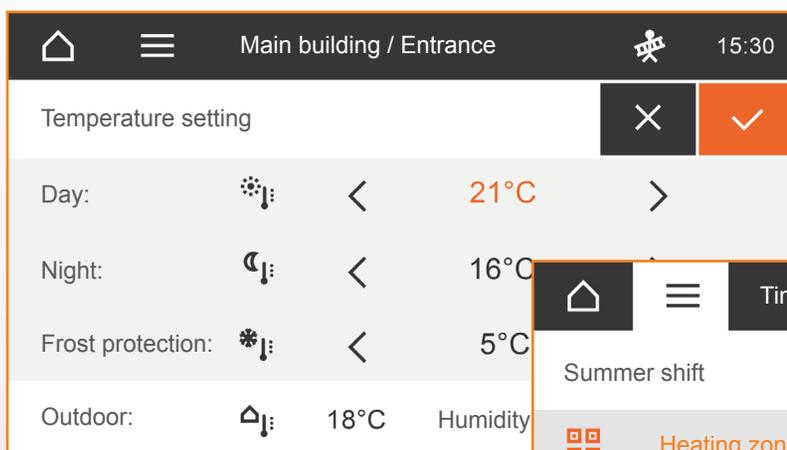
## Intuitive operations and optimised handling for even more comfort.



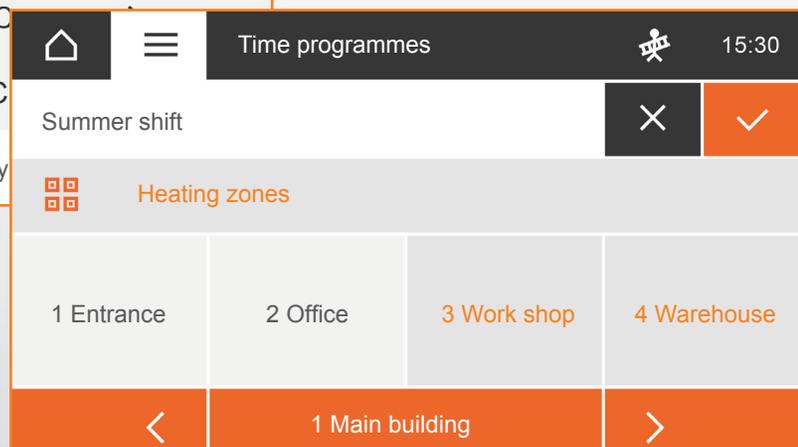
Easy and target leading control of your heating system thanks to touch screen and intuitive user interface.

Thanks to its touch screen and its intuitive user interface the handling of **SchwankControl** is easy and intuitive. All important information can quickly and clearly be examined and adjusted.

**SchwankControl** offers the possibility to implement individual modifications for each heating zone of your facility. Temperature adjustments, holiday or shift times or occasional changes of heating times, can quickly and comfortably be accessed and altered.



SchwankControl user interface: setting of individual heating programmes



SchwankControl user interface: overview of all heating zones

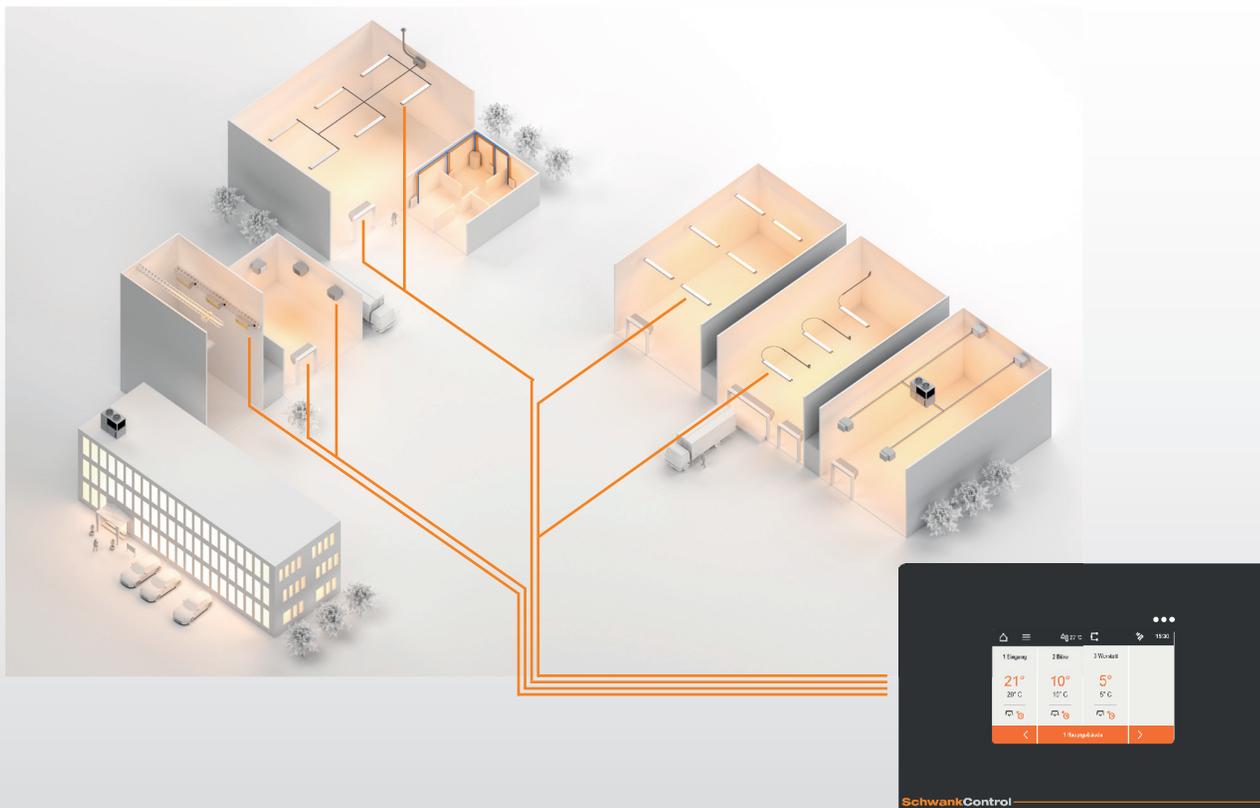
# Flexible integration in the individual facility infrastructure.



## **SchwankControl** can easily be adapted to the local conditions and can be integrated into the Building Management System.

Your heating system never stands on its own. It is mostly part of a complex facility infrastructure. Gates, sprinkler installations, entry systems and such like, all systems that are used in a facility have an impact on the heating system. Therefore, **SchwankControl** offers the possibility to flexibly integrate the control system into a building management system.

Additionally, **SchwankControl** offers a broad variety of inputs and outputs by which it is able to flexibly react to changing conditions such as temperature variations, open gates or humidity changes. Due to this flexibility **SchwankControl** contributes to an efficient control of your heating system and thereby effectively saves operational costs.



## Technical Data.

Relay outputs:	<ul style="list-style-type: none"><li>• 4 relays [1 to 4 control zones], expandable up to 32 relay outputs</li><li>• 2 fan relays, expandable up to 16 fan relays</li><li>• 1 fault relays, expandable up to 8 fault relays</li></ul>
Load:	<ul style="list-style-type: none"><li>• Max. 6,3 A 230V/50Hz [inductive]</li></ul>
Inputs:	<ul style="list-style-type: none"><li>• Temperature sensor: 2-conductor connector<ul style="list-style-type: none"><li>• Indoor-temperature sensor</li><li>• Outdoor-temperature sensor</li><li>• Humidity sensor</li><li>• Fire alarm input</li><li>• Remote access</li><li>• Gate sensor</li><li>• Gas metres</li><li>• Ethernet</li><li>• ModBUS connection [RS485]</li></ul></li></ul>
Setting range:	<ul style="list-style-type: none"><li>• Each zone individually adjustable<ul style="list-style-type: none"><li>• Day +3...+35°C</li><li>• Night +3...+35°C</li><li>• frost protection +3...+20°C</li></ul></li></ul>
Holiday programmes:	<ul style="list-style-type: none"><li>• 6 adjustable periods</li></ul>
Controller:	<ul style="list-style-type: none"><li>• 1-stage, 2-stage or modulating, selectable hysteresis: +0.2...+2.0°C</li><li>• Proportional range: 2-stage controller: +0.5...+3.0°C, modulating: +1.5...+9.9°C</li><li>• Integral coefficient [2-stage / modulating only: 10...99 Min.</li><li>• Sensor adjustment: -9.9...+9.9°C</li><li>• Fan delay time: 0...60 Min.</li></ul>
Touchscreen:	<ul style="list-style-type: none"><li>• 4,3 Inches [10,92 cm]</li></ul>
Clock, Calender:	<ul style="list-style-type: none"><li>• Power supply clock: battery</li><li>• Automatic summer / winter time switch-over: +/- 1 hour</li></ul>
Storage:	<ul style="list-style-type: none"><li>• SD-Card: 500 MB, for saving up to one year of operation history</li></ul>
Time program:	<ul style="list-style-type: none"><li>• 4 freely adjustable timer programs</li></ul>
Voltage:	<ul style="list-style-type: none"><li>• 230V / 50 Hz, N, PE, EN 50082-2</li></ul>
Fuse:	<ul style="list-style-type: none"><li>• F1 5x20mm, 6.3 A</li></ul>
Safety standard:	<ul style="list-style-type: none"><li>• EN 601010-1, EN 55011, EN-50082-1</li></ul>
Protection class:	<ul style="list-style-type: none"><li>• IP65 [Dust and splash water protected]</li></ul>
Housing:	<ul style="list-style-type: none"><li>• Plastic housing, RAL 7024 [graphite grey]</li><li>• UV-resistant</li></ul>
Optional equipment:	<ul style="list-style-type: none"><li>• Outdoor and indoor temperature sensor</li><li>• Switch for manual heat period expansion</li><li>• Humidity sensor</li><li>• Coin machine up to 999 minutes</li><li>• Photo electric barrier</li></ul>