

System solutions for every lift. Everywhere.

Lift2CLOUD®



SCHMERSAL
BÖHNKE + PARTNER

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What does »cloud« mean?

Cloud computing describes the preparation of IT infrastructure such as a storage space, processing power or application software as a service over the Internet. The advantages of cloud solutions: They enable a comprehensive collection and analysis of data as well as the scaling of systems. In addition, the data can also be retrieved via mobile devices such as tablets or cell phone. This enables a location independent control of plants and processes.

How it's connected:

A bp408 (or a bp308) controller is connected to a gateway which in turn is connected to the mobile internet or via LAN connection. The customer gets access to their lift data via PC or any internet capable mobile device.

Gateway will be connected to a controller (bp408 or bp308).



Lift data can be accessed via internet



Lift2CLOUD® components



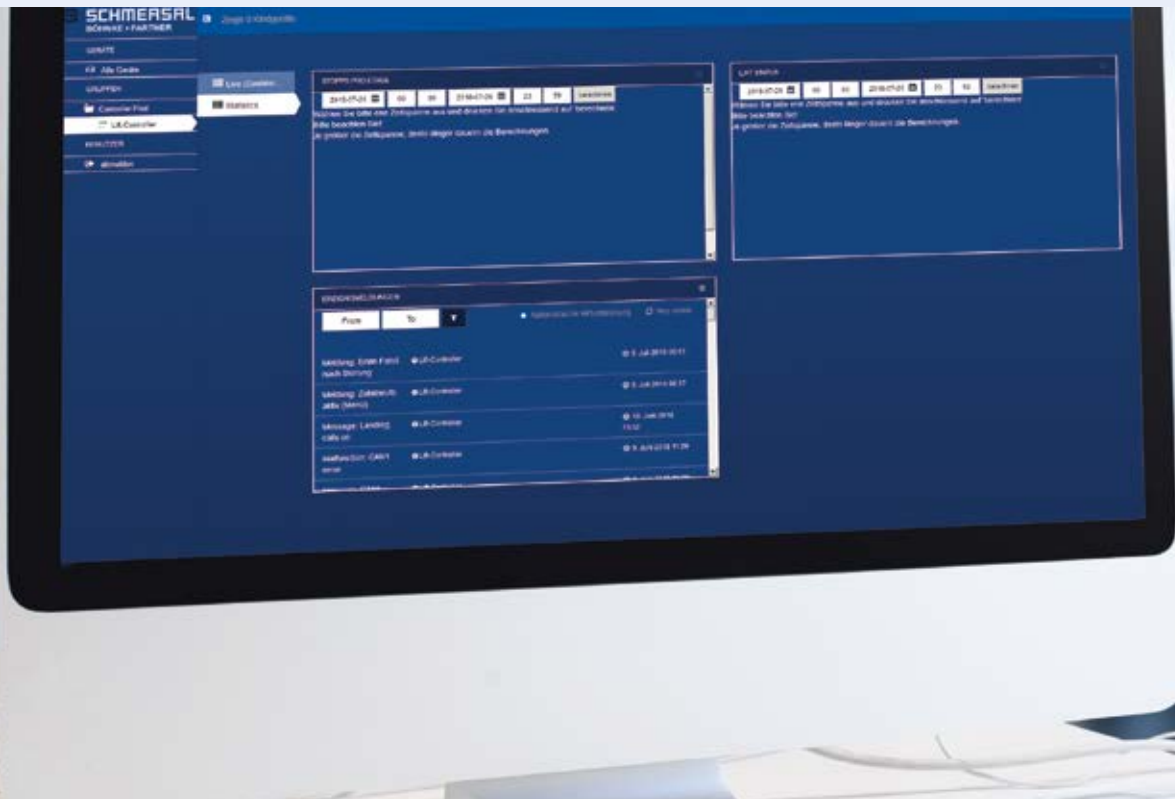
Sending measurements, position data, failure reports and other useful data of the lift to the cloud requires some technical equipment. Beside our controller, which collects all the measurements and data, a gateway is necessary to convert the information into cloud comprehensible values. A second, very important function of the gateway is to connect the controller to the internet with a secure connection.

The values transmitted from the controller into the cloud are concentrated in a database and they're available via a web browser to the end customer. Easy to access clearly arranged and in a pleasant visualisation. The database is situated on a server based in the European Union. An internet connection and the newest version of browser software is only needed at office side.



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Location-independent access to all lift systems

Highlights

- Data over the Internet using an interface
- Designed especially for the lift application
- Predictive maintenance used by data
- Bringing Industry 4.0 concepts or lifts to life

The following functions can be checked in the statistics area:

- Energy consumption converter
- Lift state
- Stopping time
- Stops per floor
- Temperature
- Waiting time



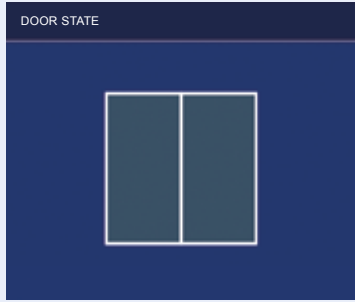
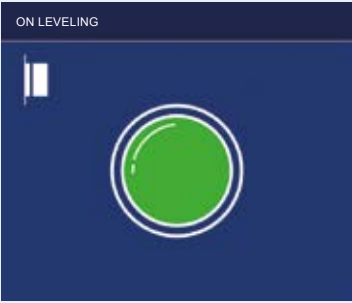

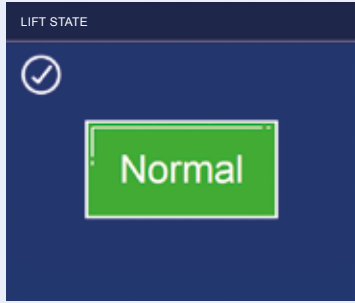
Fault list:

The cloud can trigger an automatic email to a service technician if the state »Fault« occurs.

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Dashboard

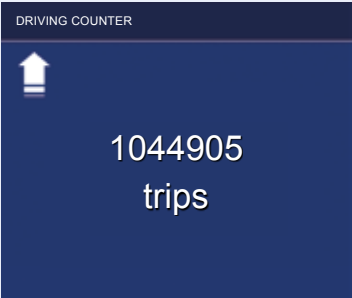
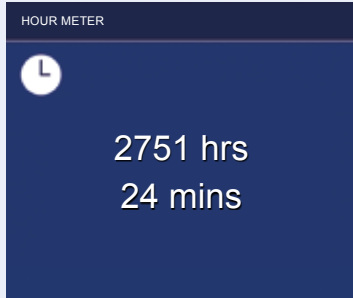



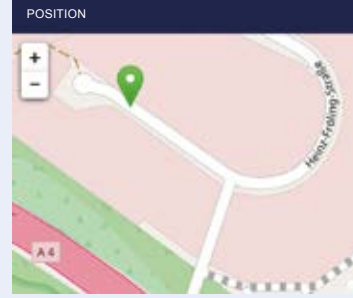
Driving Direction	Floor	Door state			
			<ul style="list-style-type: none">Shows the current car movement. The arrow in direction of movement is green, the opposite is grey. On a stop at a floor both are grey.	<ul style="list-style-type: none">The current floor position of the car in the shaft.	<ul style="list-style-type: none">Four possible door states:<ul style="list-style-type: none">– opened– closed– opening– closing
On leveling	Safety circuit	Lift state			
			<ul style="list-style-type: none">When the car is on level it shows a green light. When the car moves within the door zone, it shows a yellow light. When the car is outside the door zone it shows a grey light.	<ul style="list-style-type: none">Shows the state of the safety circuit. The green lights shows closed contacts of the clamps otherwise it shows open contacts of the clamps. All clamps are symbols for closers which are series connected. If one is opened the lift stops immediately. The clamps are labeled as 10, 11, 12, 12A, 12B and 13. All labels are editable. The switch on the upper left side is opened as soon as one clamp is opened.	<ul style="list-style-type: none">Display of the current lift status:<ul style="list-style-type: none">Green – "normal"Orange – "maintenance"Red – "fault"

Predictive maintenance planning will be included in other versions of the cloud solution.

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Dashboard

Driving counter	Hour meter	Temperature
 <p>DRIVING COUNTER</p> <p>↑</p> <p>1044905 trips</p>	 <p>HOUR METER</p> <p>🕒</p> <p>2751 hrs 24 mins</p>	 <p>TEMPERATURE</p> <p>🌡️</p> <p>26.5 °C</p>
<ul style="list-style-type: none">■ Counts the trips	<ul style="list-style-type: none">■ Counts the hours of movements. Notice: No movements no counting! The minutes are counted in steps by 6 mins.	<ul style="list-style-type: none">■ Measurement of the temperature at the cabinet. The temperature sensor is part of the controller.
Weight measurement	Energy counter	Map
 <p>WEIGHT MEASUREMENT</p> <p>📊</p> <p>75 kg current loading</p>	 <p>ENERGY COUNTER</p> <p>⚡</p> <p>95764 Wh</p>	 <p>POSITION</p> <p>📍</p>
<ul style="list-style-type: none">■ Shows the loading car. The weight is always measured in the unit kg. Possible descriptions are: "Current loading" "Minimum load" (No PAX inside the car) "Full load" (Maximum loading of the car) "Overload" (Too much PAX inside the car. Movement impossible)	<ul style="list-style-type: none">■ Measurement of the energy consumption	<ul style="list-style-type: none">■ Position of the lift on a map■ With zoom and movement functionality

For more information check the cloud website: www.lift2cloud.de



System solutions for every lift. Everywhere.

Our customers lift systems are at the focus of our attention. Regardless if it's a new system or a modernisation - with our years of experience we identify an individual or standardised solution according to your requirements. Our common goal is to guarantee the safe movement of the lift system for the users.

Schmersal Böhne + Partner is a member of the Schmersal Group. With its products, the owner managed Schmersal Group has dedicated itself to the safety of people and machines for many decades. The company was founded in 1945, and is represented by seven manufacturing sites on three continents and with its own companies and sales partners in more than 60 nations. In the demanding field of machine safety the Schmersal Group is one of the international market and competence leaders. Based on a comprehensive product portfolio, the company's approximately 2,000 employees develop and plan complete safety-related system solutions.

For over 50 years we have supplied high-quality components for the lift industry. With the acquisition of Böhne + Partner to the Schmersal Group, we took over the system concept to our lift area. Since then, the product portfolio – with control systems and components – includes all necessary elements for equipping a lift system from electrical point of view.

We supply lift manufacturers with our products all over the world. The Schmersal Group has four production plants in Germany and one each in Brazil, China and India. We offer the flexibility of a medium-sized company, combined with the international presence of a company group.

Lift controller



Components for lift construction



Control system assembly



The details and data referred to have been carefully checked.
Technical amendments and errors possible.

www.boehne-partner.com



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