

Product information Charging technology:

BCS data pro

Versions:

Flat design

Art. : 9200003-dpro

Cube design

Art. : 9200004-dpro

Upgrade Kit BCS 5400

Art. : 9200942

Upgrade Kit BCS 5401

Art. : 9200943



Battery management system BCS data pro

Complete charging, complete control - anytime!

Modern production companies rely on flexible, free assembly and logistics solutions. Consequently battery-powered technology is frequently used, from the assembly tool to the driver-less transport system (AGV).

Many thousands of smaller and larger types of batteries are therefore being used within companies. Take a rough guess at how many there could be in your area of responsibility. And where exactly are these? How old are they, better still, what is their remaining life expectancy? Is there a defect or will there be a tool failure and is the production impaired...?

Many questions – a big problem!

The user is often faced with a huge problem caused by the multitude of unknown influences and surrenders to their fate. New batteries are obtained from the warehouse or from the supplier when requested. Each year this results in the replacement of hundreds to thousands of batteries from different manufacturers and in different sizes, almost without checking.

And the cost of these batteries? This very quickly adds up to between 50-250 thousand. Euro / p.a A rising trend!



Illustration:
BCS 5400 data pro

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We give you back the control!

Thanks to its permanent monitoring, the BCS Data Pro guarantees the charging of each battery, reports faults or indicates defects. You know where the chargers are located in the factory at any given time and have the exact number of used and available batteries and chargers at hand. You get the information you need, independent of the manufacturer or cell technology of the battery!



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How it works:

Proven charging system meets modular expansion!

The result of this expansion offers you, the user, complete monitoring of the operational readiness and the organisational control of the technology used.

Regardless of where it is located in your factory, there is now the world's first cross-manufacturer system for full cost control of used batteries as consumables.

Our understanding of Process optimisation Industry 4.0.



Illustration:
Principle: Integration of BCS Data Pro

System components:

1. **Nordisch Charging technology BCS-** for series production has been in use for more than 8 years in many different large companies and has proven its worth during this time. In addition to the leading German car manufacturers, the companies using this technology also include manufacturers of commercial and special vehicles as well as aerospace. With the upgrade kit you can optionally extend your existing system.
2. The **Nordisch DATA Pro-Package** complements the existing charger with just a few hardware components. This means that adapted scan units, display panel, network module (LAN / WLAN) and the new SENDATICS module ensure that each inserted battery logs on to a database with a unique identifier and receives the charging parameters intended for it. Relevant information is sent via the company network (WLAN, assigned channels in 2,4 or 5 GHz, alternatively LAN) to the central database in the customer server. Important functions can now be activated on the charger via the company network and messages or updates can be transmitted.
3. **Nordisch BLM2 software package**
With the specially developed 2nd generation battery software "Battery Life Manager". you receive the central overview and control of one up to 1500 Nordisch multi-loaders, at the same time 6000 batteries or more, which are in the charging mode. In combination with the **BLM2**, you have complete access to all the functions of the chargers you use as well as all the battery, device and network information stored in your database.

This enables the user to directly access the single system within their production area via a PC, laptop or tablet PC, e.g. to locate the exact location of a device subject to mandatory testing or to deactivate rechargeable batteries that are repeatedly used despite a defect, while the message "Battery out of operation" appears on the device display.

Statistics of your choice, e.g. regarding the lifetime, the annual consumption as well as the monitoring of compliance with periodic inspections (DGUV A3) are possible. For every charger, for every battery!



User orientation in focus.

Comprehensible division of the user interface into 4 menu items:

1. The device manager

The screenshot shows the BLM Device Manager interface. At the top, there are summary cards for 'GERÄTE' (37/45), 'AKKUS' (1,468), 'LIZENZ' (2500), and 'V 1.27'. Below these are navigation tabs: 'Gerätemanager', 'Akkumanager', 'Netzmanager', and 'Administration'. A search bar contains 'Runge, Marcus' and an 'Ausloggen' button. The main area displays a table of devices with columns for '#', 'Model', 'Inventar Nr.', 'Standort', 'Nächste DGUV', 'Erreichbar', 'Inbetriebnahme', and four 'Schacht' (chamber) status indicators. A modal window titled 'Geräteinformationen' is open, showing details for a specific device, including its model, serial number, and software version, along with a visual representation of the device and its four chambers.

#	Model	Inventar Nr.	Standort	Nächste DGUV	Erreichbar	Inbetriebnahme	Schacht 1	Schacht 2	Schacht 3	Schacht 4
1	BCS 5400	BE-33-GH-2	Halle 6 - 43a	17.03.2019	✓	17.03.2019	58294	84743	ERROR	393
2	BCS 5400	BE-23-GA-5	Halle 6 - 12v	04.07.2019	✗					
3	BCS 5400	BE-15-AD-7	Halle 3 - 9c	04.07.2019	✓					
4	BCS 5400	BF-09-CC-3	Lager 3 - 22f	09.09.2019	✓					
5	BCS 5400	BA-12-GA-9	Lager 1 - 9b	18.02.2017	✓					
6	BCS 5401	BC-14-AA-1	Halle 7 - 44r	22.01.2019	✓					
7	BCS 5401	BE-43-AH-2	Halle 9 - 1d	30.07.2019	✗					
8	BCS 5401	BB-11-GH-7	Werkstatt 3	29.01.2019	✓					
9	BCS 5401	BJ-14-AH-5	Halle 1 - 7g	21.08.2019	✓					
10	BCS 5401	BF-72-GJ-3	Halle 2 - 9a	17.03.2019	✓					
11	BCS 5401	BA-09-AF-4	Lager 6 - 12c	09.09.2019	✗					
12	BCS 5401	BG-92-GH-2	Lager 6 - 7b	04.07.2019	✗					

You will find a quickly manageable surface which presents all systems and accumulators on-line in an overview. All device-relevant information is available at a glance.

Illustration: BLM2 - Device manager

2. The battery manager

The screenshot shows the BLM Battery Manager interface. At the top, there are summary cards for 'GERÄTE' (1/1), 'AKKUS' (0/5), 'LIZENZ' (DEMO), and 'V 1.1'. Below these are navigation tabs: 'Gerätemanager', 'Akkumanager', 'Netzmanager', and 'Administration'. A search bar contains 'Runge, Marcus' and an 'Ausloggen' button. The main area displays a table of battery data with columns for '#', 'Hersteller', 'Typ', 'Kapazität', 'Seriennr.', 'Inbetriebnahme', 'Garantie bis', 'Ladezyklen', 'Status', and 'Info'.

#	Hersteller	Typ	Kapazität	Seriennr.	Inbetriebnahme	Garantie bis	Ladezyklen	Status	Info
1	Cleco	Li-Ion	1.6 Ah	54321	17.02.2019	13.03.2019		✗	i
2			Ah	2 Nordisch	05.03.2019	00.00.0000		✗	i
3			Ah	4 Nordisch	05.03.2019			✗	i
4			Ah	3 Nordisch	05.03.2019			✗	i
5			Ah	19048	05.03.2019	00.00.0000		✗	i

Illustration: BLM" Battery manager

All rechargeable batteries are automatically registered. The stored battery data allow conclusions to be drawn regarding charging status, performance and quantity of consumables.



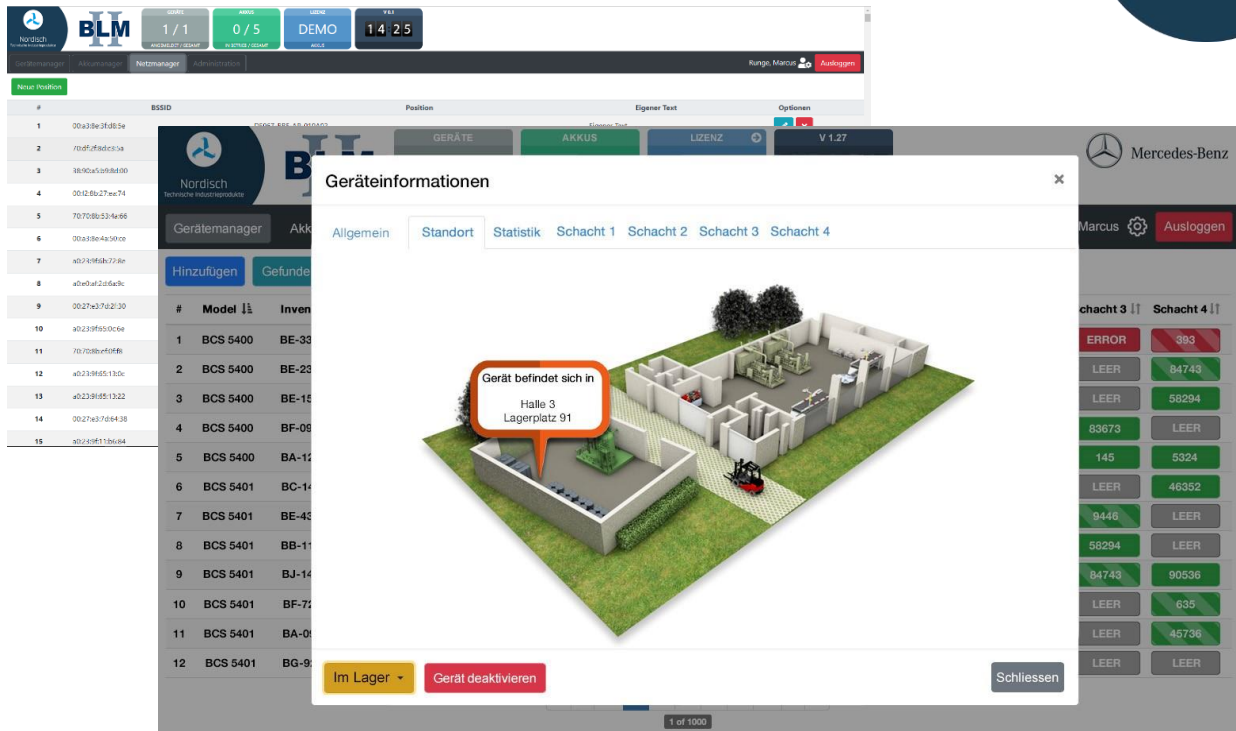
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3. The Network manager



All access points in the factory are managed, maintained and updated via a table system in the database. There may be several thousand of them, which allow the comparison with the device location. The import function reduces work to a minimum.

Illustration: BLM2 - Network Manager

4. The Administration

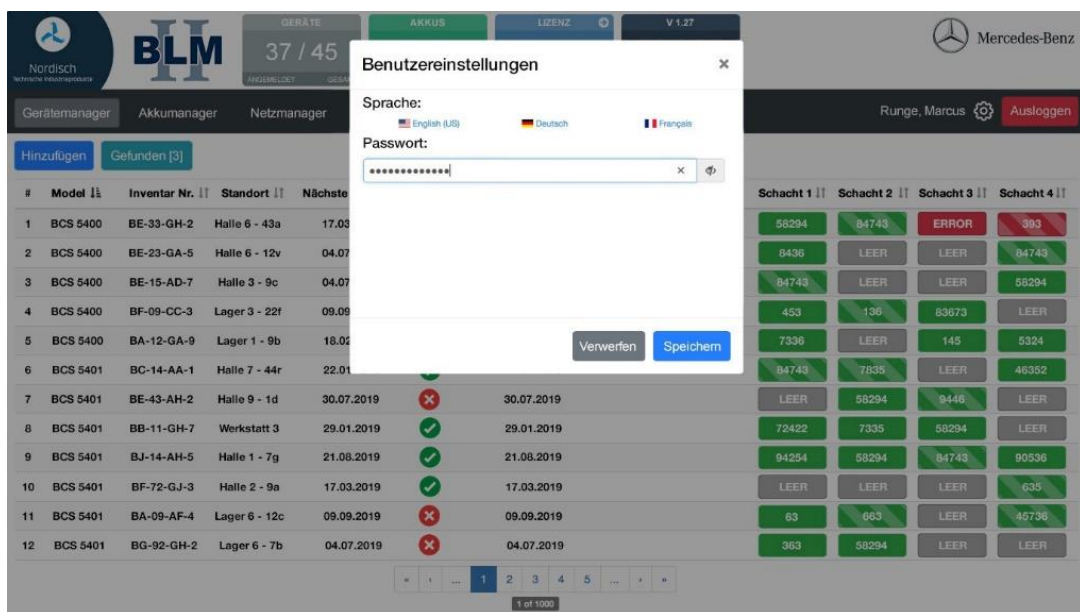


Illustration: BLM2 - Administration 1



To 4. Administration

The screenshot shows the BLM2 Administration interface. At the top, there are several status boxes: 'GERÄTE' (1/1), 'AKKUS' (0/5), 'LIZENZ' (DEMO), and 'V.0.1' (14:33). Below these are navigation tabs: 'Gerätemanager', 'Akkumanager', 'Netzmanager', and 'Administration'. The 'Administration' tab is active, showing a 'Neuer Benutzer' button and a table of users.

#	Vorname	Nachname	Rechtelevel	Letzter Login	Optionen
1	Kevin	Heidrich	Superadmin	2019-03-06 21:54:55	
2	Marcus	Runge	Administrator	2019-05-15 13:49:22	
3	Cyrille	Scotfield	Administrator	2019-01-18 12:50:21	
4	Max	Mustermann	Benutzer	2019-01-11 16:07:22	

Depending on the authorisation level, a distinction is made as to whether the registered person is a user, technician or administrator. The assignment of rights here can restrict access to different levels in the workspaces.

Illustration:
BLM2 - Administration 2

Summarised:

With the BCS DATA Pro system and the battery management software BLM2 for industrial companies, you have the overview you need. Your registered rechargeable batteries will receive the information you need from the first minute of use in the warehouse until decommissioning (e.g. recharging, technical defect, lower cost limit, cost centre, etc.) to help you make the right decision and save the company a lot of money.

We would be more than happy to show you how this works in your business in a personal conversation,

Your Nordisch team!



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BCS Data Pro:

Modular upgrade kit for existing systems as well.

