

DIZ

Doepke-Info-Zeitung

The free customer newsletter by Doepke Schaltgeräte GmbH



IN THIS ISSUE

Light + Building 1	All the information you need at a glance.....3	The digital alternative..... 4
Residual current analysis.....2	ISQ HD – audit-proof residual current protection3	Pinni goes on a special assignment 4
NEW: The Doepke selection tool app2	Our electrical finds 4	Sales agency visit..... 4



Light + Building

Trade fair postponed

The short-term postponement of the world-leading trade fair Light + Building due to the increasing spread of the coronavirus has taken Doepke and the industry as a whole by surprise. All preparations had been made and all the participants were full of anticipation for the original date. Nonetheless, we believe the decision to postpone the trade fair was the right one. No one wants to assist the spread of a disease unnecessarily.

Manufacturers traditionally use Light + Building to show their new products for the first time. They are now exploring other ways of doing this. Doepke, too, had some exciting

new products and innovations in store for Light + Building and is also now looking for other ways to show these off, be it in trade journals, training courses, seminars or webinars. We already gave you a sneak peek at some of our new developments in the last DIZ, and we will be showing you some more in this DIZ. At the same time, we are preparing for the rescheduled trade fair in September. Even Pinni has come out of retirement for a special assignment.

One thing is for certain: we will have more to show you at Light + Building in September. ■

light+building

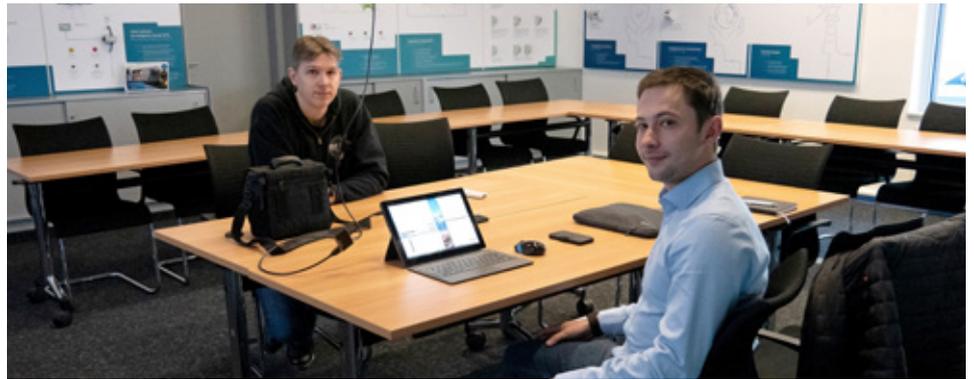
The new dates are
27 September to 2 October 2020
in hall 12.1, stand A03.
We look forward to seeing you!



Residual current analysis

Error detection and prevention with the DRCA 1 analysis system

The DRCA 1 (Doepke Residual Current Analyser) measuring system reliably measures and assesses residual currents. Residual current analysis enables the residual current and leakage current in a frequency range of 10 Hz to 100 kHz to be accurately assessed. These high frequencies occur when frequency converters are used for motor speed variation in packaging machines, ventilation systems, lifting, crane, biogas and elevator systems and milling and planing machines etc. The DRCA 1 measuring system was specially developed for electricians and drive specialists. The DRCA 1 software has clearly structured menu navigation which enables easy handling.



Modern frequency converters with EMC filters and AC-DC sensitive type B residual current circuit-breakers (RCCBs) can increasingly be found in electrical systems. These frequency converters often generate high leakage currents, which the RCCB cannot distinguish from residual currents in the electrical system. This causes the circuit-breakers to react and switch off the system when the leakage current reaches a certain level.

The DRCA 1 enables accurate analysis of residual currents and helps when selecting the suitable residual current circuit-breaker, in order to avoid future faulty trips.

Colleagues Gerhard Janssen and Mario Sembritzki performed a special kind of residual current analysis in February. This involved analysing a measurement for a manufacturer of lifts and escalators

in Singapore in real time from Norden. The customer is using RCDs from a competitor and complained that the RCDs kept tripping during commissioning and ongoing operations, without there being any fault in the system.

By analysing the leakage current using the DRCA 1 system, Mario Sembritzki and Gerhard Janssen were able to ascertain what frequency range the operational leakage currents were in and therefore help the customer to select the right RCD and reduce leakage currents.

The measurement was carried out in cooperation with the customer. This shows how Doepke is able to quickly provide its expertise and help the customer with an existing problem, even over a distance of around 10.000 km. ■

NEW: The Doepke selection tool app

With the new Selection tool app, you can find the perfect circuit-breaker for your project in just a few clicks. Available free for Android and iOS.

Android:

iOS:

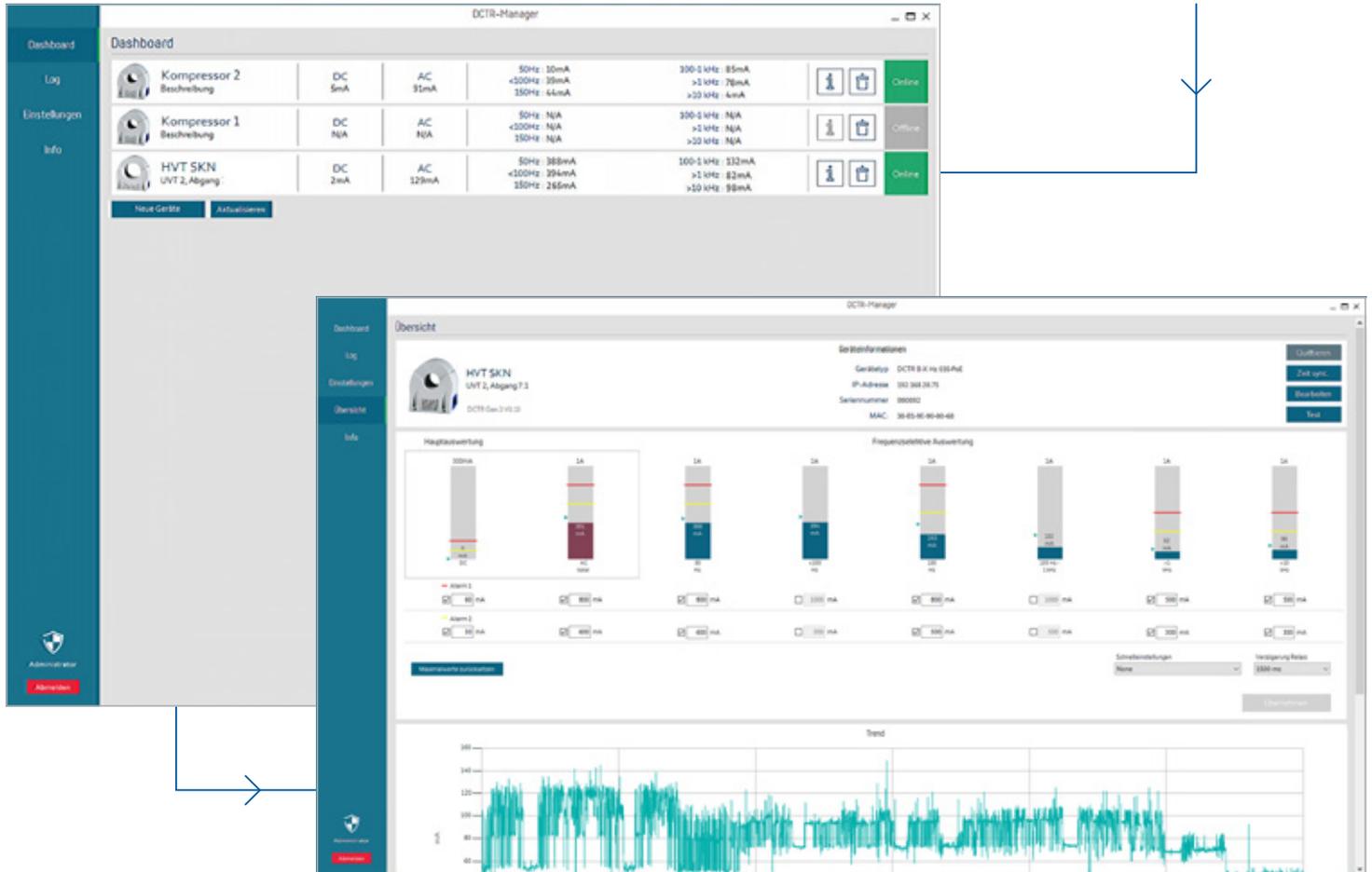
All the information you need at a glance

DCTR Manager

We introduced our smart transformer in the last DIZ: the frequency-selective DCTR B-X Hz PoE detects and evaluates residual currents at frequencies from 0 to 100 kHz with full reliability. These are displayed via the Ethernet interface in the DCTR Manager software. Let's take a closer look: The DCTR Manager is included in the scope of delivery of the

smart transformers. The software provides an overview of all transformers on the network and also makes it easy for you to manage and check residual currents. Other transformers on the network can easily be added via IP address assignment. The system's protection concept can also be freely configured in the software. The threshold values for this can

be set however you like and the two signal contacts can be evaluated individually. If an alarm threshold is exceeded, there is also the option of sending an email. Reports on all or individual transformers can be called up automatically or manually for individual periods of time or as per a specific rota using the software. ■



ISΩ HD – audit-proof residual current protection

Insulation measurement without disconnecting

The repeated insulation measurements for electrical systems required by DIN VDE 0100-600 are often cumbersome. AC-DC sensitive residual current circuit breakers must be disconnected beforehand, as otherwise the insulation measurement will give a false reading.

With the new ISΩ HD design from Doepke, there are now AC-DC sensitive residual current circuit-breakers that are audit-proof. Insulation can therefore be checked without prior disconnection. Type B Doepke residual current circuit-breakers in the ISΩ HD design can handle up to 63 A rated current and 500 mA rated residual current. ■

- saves a lot of time during insulation measurement
- no mechanical stress due to repeated disconnection
- no falsification of measured values by the electronics

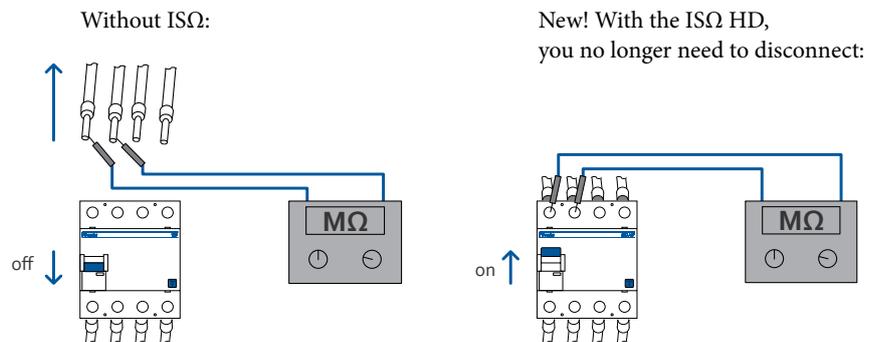


Fig.: With power disconnected. The DFS ISΩ HD is switched on, in order to access the system during insulation measurement with the test voltage.

Example – building terminal box:

It is possible to carry out insulation measurement at just one measurement point with the residual current operated and miniature circuit-breaker switched on (for example, at the supply line or at the supply connector).

Our electrical finds

Be it cable chaos, a curious installation or even 'chindogu' – the electrical curiosities we encounter have one thing in common: they are out of the ordinary and catch our eye. Chindogu, by the way, is Japanese and means 'unusual tool'. The term refers to inventions that the world doesn't really need but finds very amusing. We want to make you stare in amazement, shake your head or laugh out loud by sharing our favourite electrical finds with you in this regular feature.

This construction is not a washing line but rather a perfectly normal house connection in Malta. Willy Eilers came across this interesting find for us. Thanks for sending it in.



Photo: Willy Eilers

Do you have an entertaining electrical find to show us? If so, please take a photo of it and send it to us at: kommunikation@doepke.de
Important: We can only consider photos that you have taken yourself. ■

Pinni goes on a special assignment

With Light + Building having just been postponed, our trade fair mascot Sabiene has still not been able to start work. For this reason, we have had to bring Pinni out of his well-deserved retirement. In order not to put too much strain on him, though, we've decided not to send him back on his travels as a correspondent. He's doing what he can in our factory instead. Here we see him on our test lane where each of our circuit-breakers is tested before leaving the factory. ■



Head of Marketing Johann Meints (r) hands over the certificate for 10 years of partnership to Frank Bossert (l).

Sales agency visit

At the start of February, as we always do in the run up to Light + Building, we toured Germany visiting our sales agencies.

This round trip is used to introduce new products for trade fairs and discuss other topics. We would like to mention three of our partners in particular, who had reason to celebrate:

We have now been working with Fred Abel GmbH and with Frank Bossert Industrievertretungen for a decade. What's more, we have now been in partnership with Hans J. Möller electronics industry agency for all of 30 years! Many thanks – we look forward to working with you for many years to come! ■

The digital alternative



As an alternative to Light + Building, manufacturers and dealers are exploring different ways of publicising their trade fair highlights.

The unusual situation has produced some unusual ideas. During the original Light + Building week from 9 to 13 March, for example, the specialist electrical wholesalers belonging to the organisation MITEGRO organised a 'digital trade fair'.

This gave manufacturers the opportunity to present their most important products in 30-minute webinars. Doepke was among those that contributed on 9 March at 14:00.

Folkert Daniels gave a brief and fascinating overview of the trade fair highlights for 2020. The webinars are still available to access on the MITEGRO website. ■

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QUOTE OF THE QUARTER

*Lift up your gaze and
you won't see any borders.*

Japanese saying

DATES/NOTES

Due to the current dynamic and unpredictable situation regarding the coronavirus, many appointments and trade fairs are being postponed until autumn.

Current dates can be found on our website:
www.doepke.de