



DEHN protects – On- and offshore

Husum Wind 2017 hall 1, booth A1.03

Across the globe, whether on- or offshore, DEHN protects wind turbines against disturbances resulting from lightning currents and surges and provides components and solutions relating to safety equipment. From 12 - 15 September 2017 DEHN will present novelties regarding the safety of wind turbines at booth A1.03 in hall 1 at the leading international fair for wind power in Husum. Beside surge and lightning protection, the focus will be on registering lightning events. The lightning current measuring system DEHNdetect allows the reliable detection and evaluation of lightning events. Meet the DEHN experts and find out about the solutions available for protecting wind turbines.

The cost of constructing and operating wind power plants must be amortised within the timeframe of the, on average, 20 years of operation. Constant monitoring and foresighted maintenance are essential. **DEHNdetect** is the system to help you with this. It measures lightning currents and detects not only impulse currents but also the dangerous long stroke currents (ICC only events - Initial Continuous Current). Damage resulting from a lightning strike does not necessarily lead to the immediate failure of the turbine and, thus, lightning events often remain undetected. Especially in the case of upward flashes the initial long stroke current flowing is only a few 100A and can be the main cause of melting, e.g., on the receptors of rotor blades. The resulting subsequent damage may be severe.

DEHNdetect allows the operator to assess the situation: Was the lightning strike harmless or does the turbine need to be switched off and inspected in order to rule out damage to the rotor blades or other components? As well as the total current in the system, **DEHNdetect** registers individual partial currents in the rotor blades.

The provision and management of data is simple and convenient via web applications (cloud). It is no problem to monitor several plants or even entire wind parks.

DEHNdetect can be installed directly by the wind turbine manufacturer or retrofitted in existing plants. Installation is quick and easy, e.g., at the transition between the hub and nacelle, and can be adjusted to the specifications of the individual turbine.

DEHN + SÖHNE GmbH + Co.KG.

Postfach 1640
D-92306 Neumarkt
Tel. + 49 9181 906-0
Fax + 49 9181 906-1100
eMail: info@dehn.de
www.dehn.de

Corporate Communication

Petra Raab
Tel. + 49 9181 906-1426
Fax + 49 9181 906-551426
eMail: petra.raab@dehn.de



Our experts at the HUSUM Wind look forward to seeing you and answering your questions. Quality awareness, customer proximity and a wide range of services make DEHN a reliable partner for lightning and surge protection and safety equipment. We will be pleased to help you select the right solutions and devices. We also provide inspection services in our test centre where we can, for example, simulate lightning currents of up to 400 kA, an unparalleled accomplishment worldwide.



DEHN at HUSUM WIND 2017, booth A1.03, hall 1

DEHN is a leading, globally active family-owned company for electrotechnology with about 1,800 employees worldwide. DEHN offers innovative products and solutions as well as comprehensive services in the field of **surge protection, lightning protection and safety equipment**. DEHN chiefly, but not exclusively, focuses on the protection of plant and building technology; transport, telecommunications and process industry systems; and photovoltaic systems and wind turbines. The company's continuous growth is based on more than 100 years of tradition and experience as well as the highest quality standards and globally consistent customer and market orientation.

DEHN + SÖHNE GmbH + Co.KG.

Postfach 1640
D-92306 Neumarkt
Tel. + 49 9181 906-0
Fax + 49 9181 906-1100
eMail: info@dehn.de
www.dehn.de

Corporate Communication

Petra Raab
Tel. + 49 9181 906-1426
Fax + 49 9181 906-551426
eMail: petra.raab@dehn.de