



# DEHN protects.

Telecontrol solutions by IDS

## Customer



IDS GmbH

## Project overview

### Sector

Energy technology

### Application

Network management

Station automation

### Hardware

(Depending on application)

DEHNguard

DEHNrail

BLITZDUCTOR XT/SP

DEHNgate

DEHNpatch

# DEHN protects.

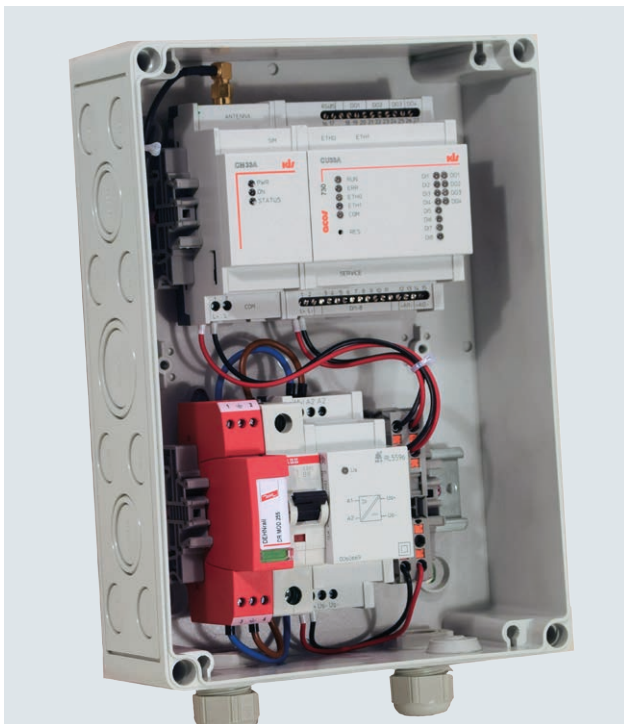
Telecontrol solutions by IDS



## IDS GmbH

IDS GmbH specialise in network management, telecontrol systems, station automation and protection systems. In addition, IDS provide software solutions for fault elimination and maintenance as well as for the integration and networking of systems. Their customers not only include network operators and municipal utilities, but also industrial and transportation companies.

As a member of the IDS group, IDS GmbH is able to offer comprehensive solutions for network operation, metering point operation and in matters of IT security. Thus, IDS is making a significant contribution towards the digitalisation of the energy revolution – achieved through integrated technologies and interfaces, broad expertise and collaboration on current research projects.



Example application: ACOS 730 installed with surge protective device DEHNrail

## Challenge

IDS provide energy supply companies with complete solutions for substations: from pre-defined standard solutions to bespoke plug & play versions. The new, compact small telecontrol device ACOS 730 forms the core of the complete solution.

This device makes it easy to register, for example, information from short circuit and earth fault indicators or network analysis devices, or to control switch disconnectors. Alongside the central unit, the ACOS 730 has further I/O modules, or rather, a power measurement system as well as an LTE modem. This guarantees the constant functionality and availability of the system!

The risk of damage caused by electromagnetic influences as the result of direct or indirect lightning discharge is growing rapidly. The reason for this is the wider installation and networking of increasingly sensitive electronic devices and systems in the smart grid. In addition, voltage peaks in the network, e.g., from earth faults and short circuits or switching operations, can cause further damage. This leads to long and expensive operational interruptions and consequential damage.

## Solution

IDS rely on the tested lightning and surge protection concepts by DEHN to avoid expensive maintenance and repair work, to ensure functionality and reliable supply and to fulfil the requirements laid down in the German standard DIN VDE 0100-443 for new buildings. Depending on the system constellation, all interfaces which are in danger of being damaged by surge impulses, inductive or capacitive, are protected using high-quality and high-performance surge arresters by DEHN. This not only applies to the power supply but also the coaxial interfaces leading to external antennas.

## Benefits of DEHNshield

- ➔ Laboratory-tested protective effect
- ➔ VDE, KEMA and UL certification
- ➔ Can be included in the control system via the floating remote signalling contact
- ➔ Preventative maintenance of the surge protective devices via the "Life Check" function
- ➔ Quality products, developed and manufactured in Germany