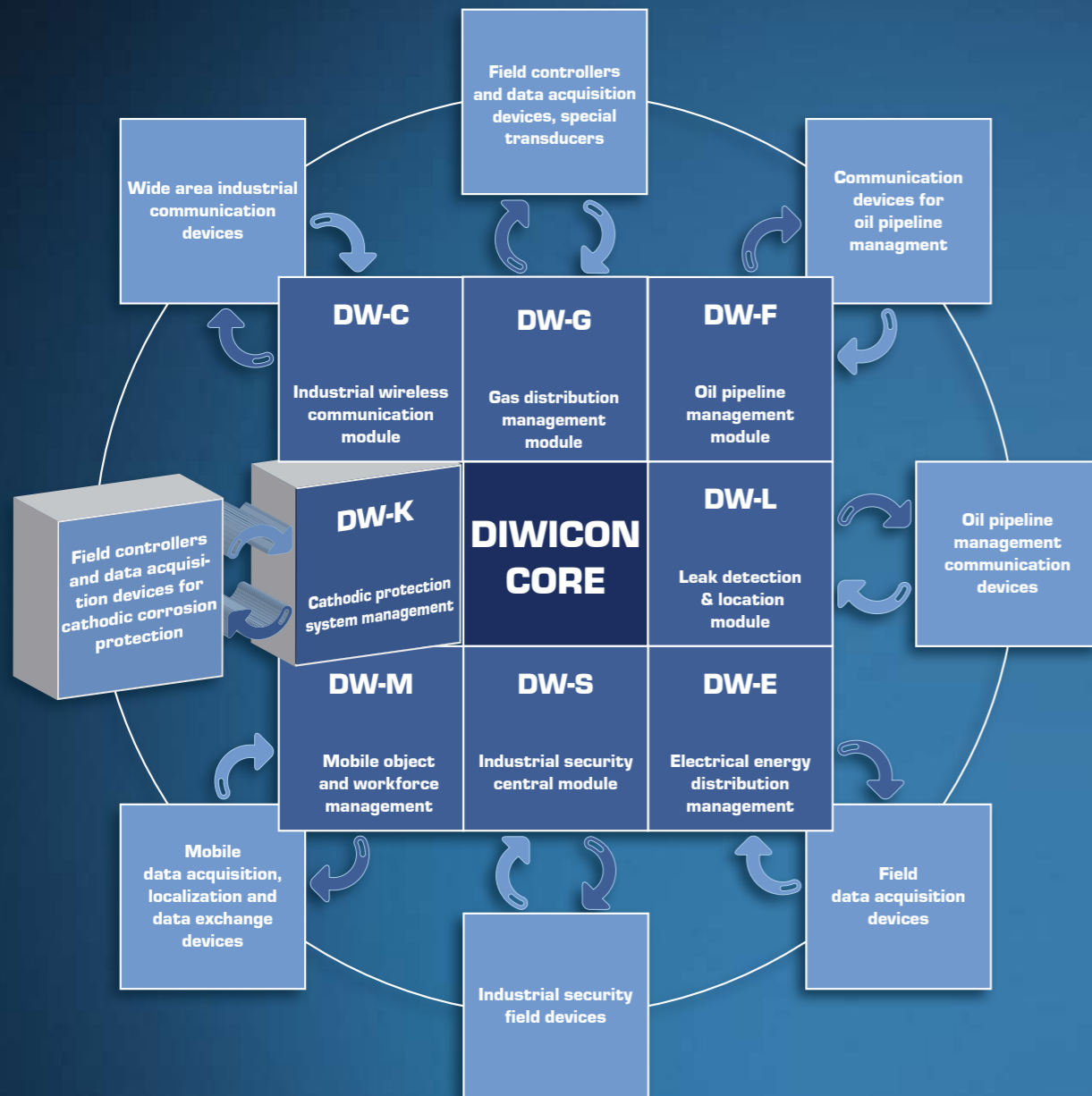


DIWICON-K

One of several modules in the DIWICON technology family, providing a complete vertical range of products for mission critical industries.



**Solution for Supervision
and
Control of Cathodic Protection Systems**



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DW 631 K

Intelligent Field Cathodic Station Control Unit

The specialized way to manage your cathodic corrosion protection stations.

The equipment is made for supervision. One device is required at each station. Using its high resolution IO channels, it can manage all measuring and controlling tasks which might arise.

With redundant iGPRS communication the data is displayed securely and up to date in the supervisory center, in the management office, or even on mobile devices.

Measurements are automatic and scheduled thus eliminating the need for frequent manual measuring along the pipelines.



DW 821 K

Cathode Station Controlling Module

The ideal choice in cases where there are large numbers of supervisory stations or if space is limited in the field cabinets. An optimal system can be assembled, making use of the advantages of modular configuration.

A DIWICON iGPRS communication unit connected to the linked modules creates a complete, customized field system.



DW 5844 K

Intelligent Minimum Point Cathodic Communication Unit

This special device installed far from the existing cathodic corrosion protective stations, can be buried and left alone for years.

There is no need for a continuous, on-line connection at the reference points. According to the measuring method and place, the device continuously monitors its own section of pipeline and transfers the data to the central server daily. It immediately communicates any problems or emergencies.



DIWICON-K SCADA platform

Human Machine Interface for DIWICON-K Cathodic Corrosive Protection

Data stored on high reliability servers can be accessed from anywhere and anytime with the help of the applied modern Intranet/Internet technologies. Having a browser is enough to make use of the standard HMI functions.

The operator or user, depending on the permissions, can monitor the stations, acknowledge the occurrence alarms, analyze and visualize the historical data on trend diagrams, or even is able to control the field stations.



Online overview of the cathodic stations along the Hungarian oil and product pipeline network where DIWICON-K devices are installed

OVERVIEW

DIWICON-K is one of several advanced solutions which make up the DIWICON family of modules created especially for the specific requirements of wide area industrial systems. DIWICON is unique due to the cost-effective and reliable use of industrial wireless WANs.

DIWICON eliminates the need for costly, sometimes impossible, wired industrial communication networks and impractical power lines between remote field equipment and the central application server. DIWICON was among the world's first systems to take real-time GPRS wireless data transfer and enhance it with the reliability, security, and flexibility required by industrial customers. The modular structure, standard interfaces, and web-centric design make DIWICON easy to integrate with any other leading ERP component or system such as SAP and Oracle.

All of DIWICON's modules, devices, and transmitters are designed and built to seamlessly integrate with each other. Whether implemented individually or collectively, DIWICON modules and products have a huge and immediate potential to bring lower costs and higher efficiency to cathodic protection.

Operating costs can be drastically reduced owing to inexpensive iGPRS communication (with event-oriented implementation) and the important fact that there is almost no need for the old complicated and time-consuming measuring method.

The DIWICON-K family provides full supervision for cathodic corrosion stations. It offers an optimal solution for creating an on-line measuring system and the opportunity to schedule intensive measurements automatically.

The DIWICON system components use standard solutions for data exchange between each other and can be extended to other systems. The structure of the system follows the general DIWICON scheme, in which field devices communicate via reliable iGPRS with event-oriented implementation. Therefore the optimal price/value ratio is easily achievable. Data is stored on highly reliable servers, where search, analysis, and archiving can be solved indefinitely. The interface is user-friendly and there is no additional license fee (browser, WAP).

FIELD UNITS

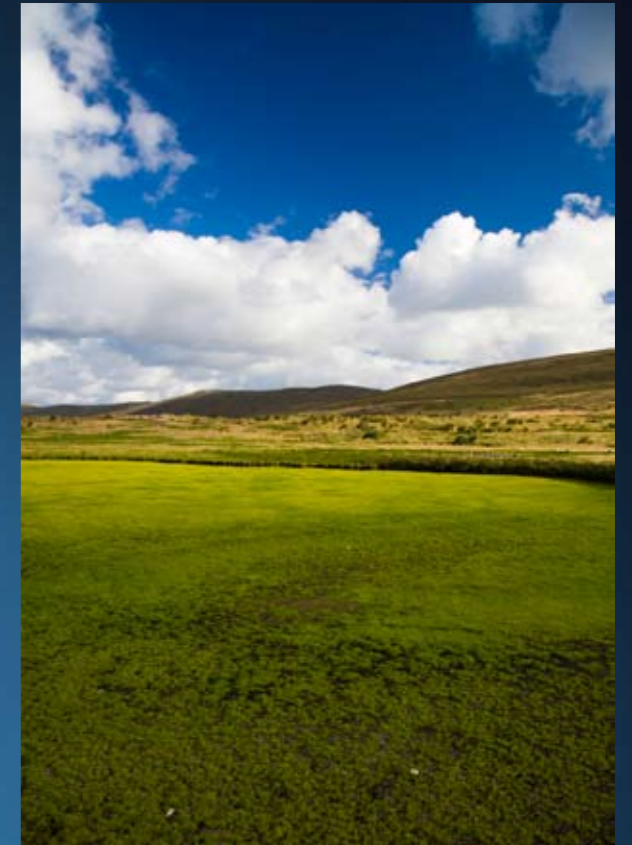
DIWICON-K field devices employ intelligent and wireless communication. This reduces operational and human resource costs. The new, fully automatic measuring system is much cheaper than the old "walking and measuring" method.

With the system supervision fully controlled by DIWICON-K, efficiency and security are increased and the risk of environmental damage is greatly reduced.

DIWICON-K field devices can make use of two GSM service providers at once for the redundancy required by mission critical applications.

SERVER

Having the entire software solution based on the server means that you do not have to install software and pay for additional licenses. Only a browser or Web-capable device is needed.



The use of APN (access point name) domains for connection to wireless communication service providers offers two-layer security for data management.

DIWICON redundant cluster architecture servers provide some of the most reliable and secure data handling in the telematics field for industrial grade reliability.

INTERFACE

The DIWICON-K system is accessed directly through a browser. Using any existing office workstation with an Internet connection makes it unnecessary to invest in new equipment and new software.

Control of the system is based on user permissions. The user permissions can be determined by the system operator.