

FRIGODATA SOLUTIONS

Data management for every demand





A SYSTEM FOR EVERY CASE

PLANT MONITORING WITH WURM SOLUTIONS

Energy efficiency, operating costs and securi- Particularly if you work with a system solution ty are key issues for running your plant. Plants which comprises refrigeration, climate, lighting, optimised for energy are not only cost-saving but air condition, heating and peak load optimisatialso make a significant contribution to climate on, transparency is a demanding task. and environmental protection.

performance of your plant(s) you need to have a complete overview - of a single project and of a branch network.

At the same time, you need to know immediately whether and where a fault is detected. From time to time, you will also want to see detailed data from a single market.

We provide you with the instruments for a com-In order to evaluate the energy efficiency and the prehensive monitoring around the clock and climate-protecting plant operation.

> Whether as software for the PC, an internet application or an app for your mobile device - with our solutions you have everything under control: parameterising, visualising, documenting and alarming; if needed, independently of location and time via remote data transmission with mobile devices.

This brochure gives an overview of the essential components of our solutions for efficient plant

Our specialists will be pleased to answer any questions you have or provide further information.

ON TOP OF THINGS AT ANY TIME

CONTROL AND MONITORING - ALWAYS AND EVERYWHERE

More than 300 million new data sets from the also be used as a local single PC solution at your plants connected to the Wurm data system are provided per day. As a central switching station, the Wurm COM-CENTER connects this system data reliably with the monitoring tools.

The data exchange with numerous plants with Wurm technology has already been done for a long time via VPN connections. This means that our customers are well prepared for the upcoming conversion of all telecommunication connections to Voice over IP (VoIP) and the discontinuation of analog technology.

is based on our own redundant servers with unin- nal systems. terruptible power supply.

following main ways: FRIGODATA XP, which can a claim to the highest possible data protection.

site, allows monitoring and analysis of all your projects, which are accessible via remote access. For mobile use the practical service and market app Frida enables targeted searching for your projects and operation down to the last detail.

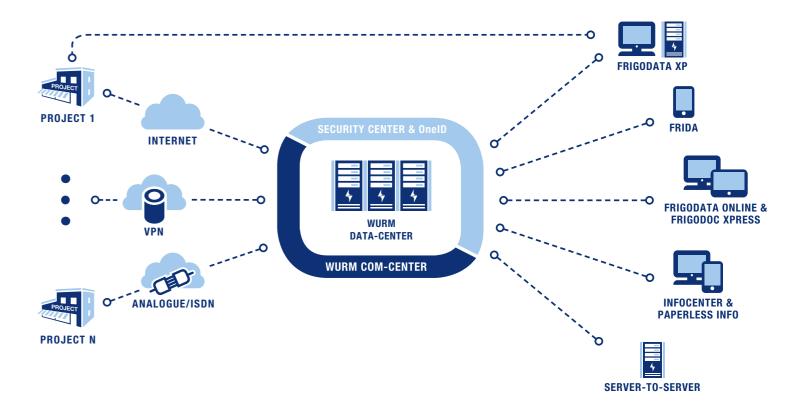
FRIGODATA ONLINE, as a web solution, provides platform and location independent analysis and a comprehensive project set comparison on a variety of projects. The FrigoDoc Xpress application extends the functionality with handy features.

Our Server-to-Server web service enables data Our DATA CENTER provides maximum safety, for it transfer from plants with Wurm devices to exter-

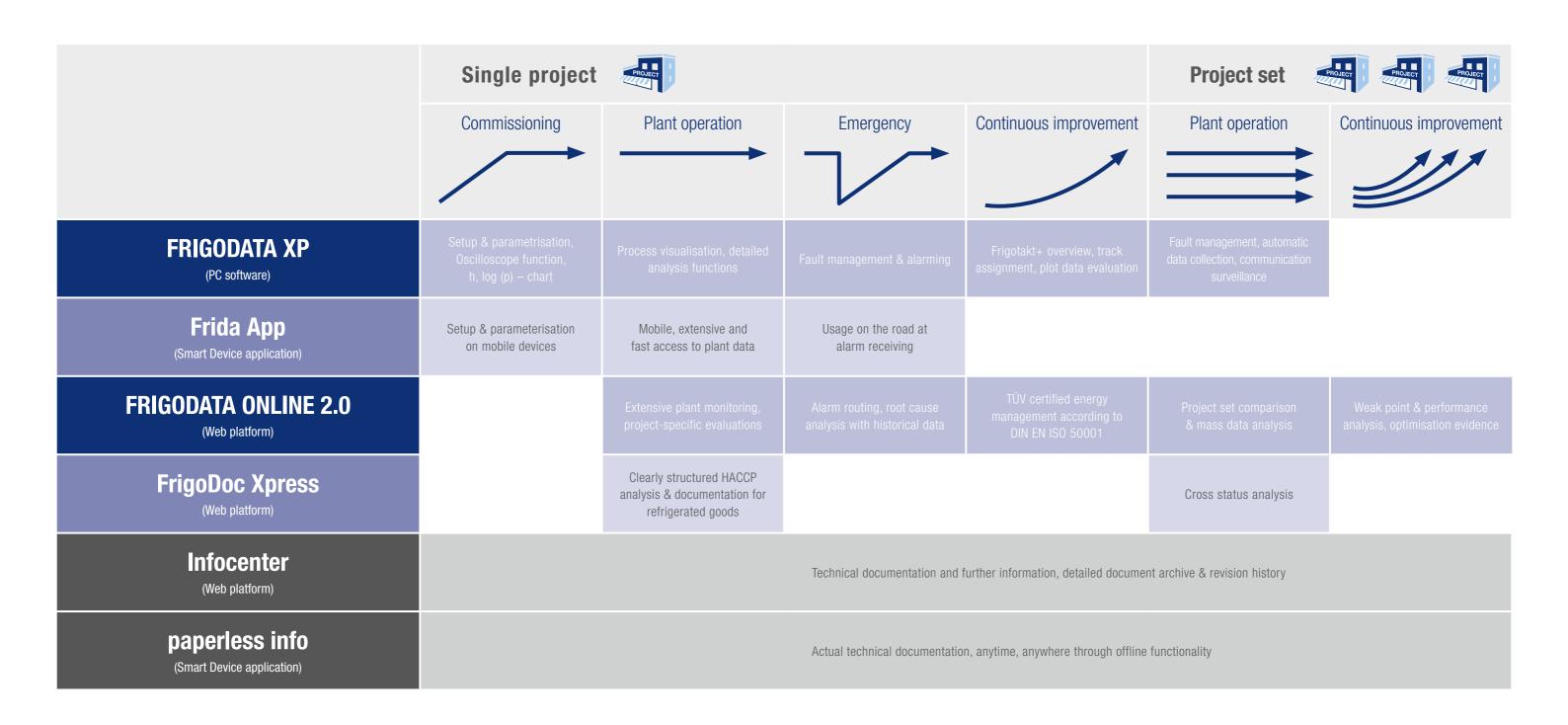
The entire deployment and access to system To access the data of your system you can use the data are done by the Wurm Security Center with As the central access management it ensures authorised access according to the specific assignment of rights.

Based on this sophisticated architecture, the OneID app provides the opportunity to perform authentication for all applications via a mobile device bound to your user identity.

Even our solutions for providing technical information and documentation, such as the Wurm Infocenter and the paperless info app, are reliably protected by the Security Center.



THE RIGHT TOOL FOR ANY REQUIREMENT



FRIGODATA XP



INTELLIGENT SOFTWARE IN CONTINOUS DEVELOPMENT

and data recording.

his plants by remote monitoring and to visualrecording supports detailed and precise tem- with FRIGODATA XP in one network is possible. perature documentation according to HACCP. Further functions facilitate alarming.

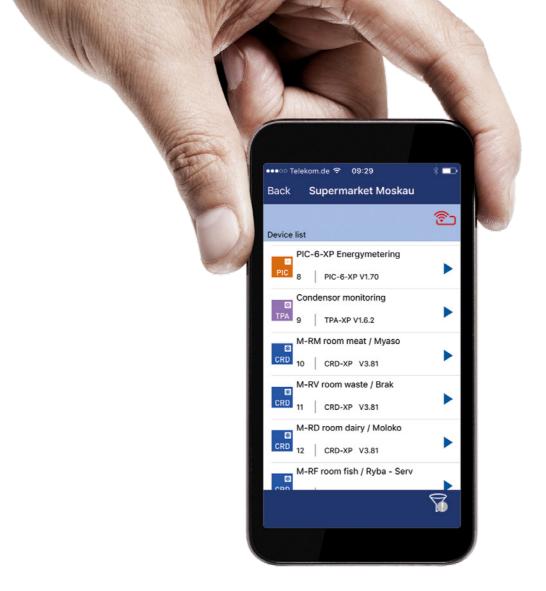
successfully by plant operators and service com- PC software is an effective instrument for the ation and integration of process pictures conpanies in the refrigeration and cooling sector first commissioning of plants and continuous cerning the plant. for many years. It covers a wide range of plant professional fault management. Apart from that, management tasks, for example, the continuous FRIGODATA XP is excellently suited for detailed With its functions, FRIGODATA XP covers the wide and regular collection and processing of data analysis, as the software can use continuously range of plant monitoring tasks to a large extent. updated measured data.

FRIGODATA XP enables the user to parameterise
Thanks to enhanced network capabilities and the
nance and further development of the system. support of MS SQL servers with FRIGODATA XP. This means you will continue to benefit from a ise and evaluate collected data. Complete data the integration of any number of stand-alone PCs high degree of investment security.

> The multi-client capability enables individual access for each user. This is the basis for a flexible system design, scalability and redundancy of the system.

Our PC software FRIGODATA XP has been used With its comprehensive range of functions, the Another advantage of FRIGODATA XP is the cre-

We are continuously working on the mainte-



Frida App

THE PLANT DISPLAY IN YOUR POCKET

can create and edit projects independently of locadetail level and you can change all adjustable values. Even large parameter sets are presented clearly and you can also benefit from clearly
The project can be set up in Frida as it is put into structured HACCP tables.

your project and enables wireless connection via tion. You can see all your devices on the CAN bus Bluetooth® Low Energy (BLE). You can reach the in the clearly structured device tree and navigate plant via the internet anywhere else. In this way, all through their parameter sets. When required, the the plants can be contacted in the app in accordapp can visualise a project down to the deepest ance with your user rights, if they are reachable via one of these ways.

operation. Reading of device data enables fast navigation through a single project. The DATA CENTER Different types of connection to the plant guarantee enables even faster synchronisation for all project that Frida on your mobile device always has cur- and device data, even when you are on the road.

With the Frida application for mobile devices you rent data: The access point CAN-AP is mounted in The Frida App from Wurm is an efficient solution for mobile working practice: As service staff at the commissioning of a plant or a store manager within the daily monitoring tasks you will always have your projects ready and in clear view on the smartphone display.



www.wurm.de/frida

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FRIGODATA ONLINE 2.0

INTELLIGENT SOFTWARE ALWAYS ON THE PULSE OF THE PLANT

FRIGODATA ONLINE 2.0 is an excellent instrument for mobile work. Independently of platform and location, the website enables you to process, evaluate and qualify even large amounts of data. Thanks to automated data collection and processing you achieve a transparency far above the information content of other solutions.

You can not only analyse a single project in every in a Plan-Do-Check-Act cycle. detail but also carry out a comparison of all projects included. Thus, you will get, for example, an overall overview on the energy balance of your

connection with a plant and see current data fast and comfortable in live mode.

The web platform supports you efficiently with the realisation of an energy management (EnM) according to DIN EN ISO 50001. This international norm, published in 2011, focuses on the worldwide reduction of energy consumption and greenhouse gas emissions and sets standards for the implementation of an energy management system. Plant operators should realise this

FRIGODATA ONLINE 2.0 provides you with a number of helpful EnM tools. For this, the BAFA (Federal Office for Economy and Export Control) listed our browser solution as "eligible energy With FRIGODATA ONLINE you can set up a live management software" in 2015. Together with a large number of other Wurm devices, our web platform is also certified for energy management by the German TÜV.

HACCP evaluations not only provide you with data from the previous day - with FrigoDoc Xpress, inherent part of FRIGODATA ONLINE 2.0, you can see and analyse current temperature data whenever you need them.

For several years, our browser-based application FRIGODATA MOBILE has enabled the usage of FRIGODATA with mobile devices. You can benefit from clear selection lists of projects, controllers or malfunction and procedural messages.

FRIGODOC XPRESS

FAST CONTROL WITH A "TRAFFIC LIGHT CHECK"

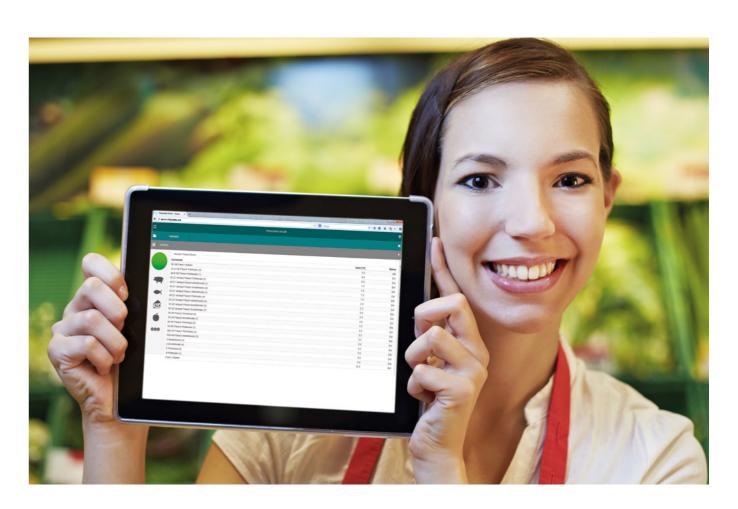
application FrigoDoc Xpress is the right solution for operators of plants for refrigerated goods (such as food or drugs). The main task of the applica- To offer maximum HACCP conformity, digital tion is HACCP-compliant temperature monitoring and documentation according to Regulation (EC) 37/2005. It combines the independence from location of FRIGODATA ONLINE and the timeliness of a local PC solution.

FrigoDoc Xpress ensures the location and plat- which monitoring methods should be used for form-independent overview on the home screen them centrally. Configuration and maintenance via by picking up the latest data in ten-minute intervals. Via the intuitive "traffic light check" you are scope of functions of FRIGODATA ONLINE and are

For fast action in everyday use the practical online able to see whether your system is in good condition or critical conditions have arisen.

> documentation is stored for 2 years in the Wurm DATA-CENTER. In addition, the acknowledgment function makes required documentation of internal operations possible paper-free.

If necessary, for all product groups you can define remote data transmission are part of the standard extended by FrigoDoc Xpress with options to configure the monitoring functions. So onsite service calls are not necessary in many cases. Defrost and shutdown times are determined by the monitoring methodology, e.g. by a delayed resumption of measurements, and false alarms are prevented.



COMMUNICATION ACCORDING TO YOUR NEEDS

will be pleased to assist you. Our competent colleagues will help you via phone and remote maintenance. Moreover, we provide you with various services to make the use of our control technology as convenient as possible for you.

ous service partners can benefit from our timeand cost-saving Wurm Routing Service:

Instead of taking care of the implementation of EMC and CAN bus. various secure VPN solutions, you can use one single VPN connection to the Wurm COM-CENTER With our paperless info app you have access to we will take care of service and maintenance for a safely encrypted connection with all of your service partners.

If you have individual questions, the Wurm hotline If you need detailed descriptions and manuals on the devices you have in use, you can access this information at our web-based Wurm Infocenter at

Even without a personal account you are able to access basic technical information on devices Plant operators who need connections with variand software solutions. An adaptive search algorithm even enables the search for discontinued devices. Additionally, the Wurm Infocenter provides information on further subjects such as

> all important product information from the Wurm Infocenter that you may need for the operation and maintenance of your plant - anywhere, any time and even without any connection to the internet.

For data transfer from a plant with Wurm devices to external systems, our server-to-server solution is a convenient solution. We would be glad to advise you on the choice of solutions most suitable for your needs.







ADVANTAGES AT A GLANCE

TRANSPARENCY IN PLANT OPERATION

We provide you with instruments for comprehensive monitoring around the clock and climate-pro- o The PC software enables the parameterising, tecting plant operation. Whether as software for the PC, an internet application or an app for your mobile device – with our solutions you have eve- O With its comprehensive range of functions, rything under control: Parameterising, visualising, documenting and alarming. Your data is always stored safely - the Wurm Security Center aims to provide maximum data protection. With our OneID app you have the possibility to bind your Frida App mobile device to your personal user identity. This o Our native app, Frida for iOS and Android, guarantees a fast and convenient access to all Wurm applications with maximum safety.

- visualising and evaluation of a plant's data via remote monitoring.
- the PC software is an effective instrument for the first commissioning of plants and continuous professional fault management.

- enables you to create and edit projects at any time and place. If needed you can analyse o The "traffic light check" indicates at a glance a project data at the most granular level of
- Via Bluetooth Low Energy (BLE) and the inter- Thanks to automated data collection every 10 net you can connect Frida with the plant at any time and place.
- o A major advantage for practical use is the project database in the Wurm DATA-CENTER. Searching for and downloading single pro- Our team at the Wurm Hotline will be pleased jects is quick and easy.

FRIGODATA ONLINE 2.0

 With our web-based software you can process and analyse data independently of platform and location.

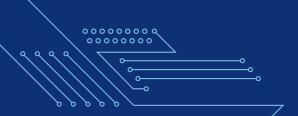
- Thanks to automated data collection and processing you achieve a transparency far above the information content of other solutions.
- o Not only clear visualisation is a particular strength of FRIGODATA ONLINE 2.0, but also the possibility of carrying out a comparison of all projects included.

FrigoDoc Xpress

- For rapid action in daily business, our practice-oriented online application is the right
- if your plant is in proper condition directly on the home screen.
- minutes, data are kept up to date, combined perfectly with independence from location.

Always informed

- to answer your specific questions.
- You will find technical documentation and further information at infocenter.wurm.de or in the paperless info app.





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