



DOMAT
MEMBER OF CEZ ESCO

NEWS LETTER

Autumn 2024

Energy under control

LOOKING BACK AT 20 YEARS OF DOMAT

On the occasion of our 20th anniversary, we have a nice opportunity to reflect on what we have actually accomplished together and to thank each of you for being there. We started the company in 2004 with a very small team and we had a vision of doing something in the industry we are in, something that we would enjoy and that wouldn't stress us out about going to work.

We have always wanted to make a living doing honest, well-done work. We never imagined that the five enthusiasts we had two years after starting the company would be a company with 80 employees and a twelve million euro turnover twenty years later. It's a great honour for us to have made it this far together. But this challenging journey has not just been about the start-up team, but about all the colleagues who have ever joined us and are – or are no longer – with us. Of course, this includes our customers and suppliers, whom we consider to be an integral part of the team. We would like to thank you all, we couldn't have done it without you.

We started with a vision to simplify and cheapen what were at the time quite complex and expensive building control systems, to enable operators to have better control and thus achieve energy savings. Since the company was founded, we have gone through a series of successes and failures from which we have always tried to learn. We have also taken feedback from our business partners and, although it sometimes didn't feel like it, we have reflected on it, especially the negative ones. Today, we can consider ourselves an industry leader, delivering large-scale energy systems that not only optimize the operation of various facilities, but also make a significant contribution to sustainability and environmental protection.

We are proud of how far we have come. So let us today recall the past and look forward together to the future, to the further successes that are sure to await us together.

Thank you for being part of our story!

**IT'S OUR BIRTHDAY,
BUT YOU GET
THE PRESENTS...
TOMORROW!**



20 YEARS CELEBRATION

The planned celebration of the company's anniversary was interrupted by the floods in the Czech Republic. The weather surprised not only us, but the whole republic and adjacent states. The whole situation forced us to reconsider our plans. Although we were very much looking forward to meeting together, it seemed more important at that moment to postpone the celebrations to a more appropriate time and support our colleagues and employees in a difficult time.

The celebration is not being cancelled, it is being rescheduled!

As we still think that the twentieth anniversary should be celebrated, we are selecting a suitable date for the occasion and will keep you informed.

NEWS

WE HAVE UPDATED THE PRICE LIST

Dear business friends, a new price list for our products has come into force as of 23 September 2024. It brings only minimal changes, mainly concerning the replacement of the HT200 graphic terminals by the HT3xx series, see also below.

To receive the new price list, please contact us via email

New contact for orders and their status - we are here for you!

You can now use the new contact to ensure faster and more efficient information about the status of your orders. We can be reached by phone at **+420 467 071 717** (virtual landline) and by email at logistics@domat.cz, please use this email to send new orders as well.

We will be happy to assist you with up-to-date information and ensure your order runs smoothly.

Do not hesitate to contact us!

HT300, HT310, HT315 terminals

This series of graphic terminals replaces the popular HT200 terminals and brings increased performance and a choice of display sizes. The terminals have two Ethernet interfaces, making system topology design easier, and feature an ARM Cortex A53 i.MX 8M 1.6 GHz processor with 16 GB eMMC and 2 GB DDR4 RAM. Graphics templates can thus contain more elements and the display response is significantly faster than that of the HT200. The LCD display diagonals are 7", 10" and 15", so you can choose between an economical and a highly comfortable solution. Graphics creation is the same as with the HT200 and the terminal is fully supported in Domat IDE from version 2.6.0.7 onwards. The templates created for HT200 can be used for HT3xx without further modifications.



Combined I/O module R800

In April 2024, we launched the new R800 combined analog I/O module. It is a microprocessor-controlled, communicative module with eight analog inputs with selectable ranges (voltage, resistance, current loop) and eight 0..10 V analog outputs. It combines the functions of the R560 and R610 modules. The RS485 bus with Modbus protocol is traditionally used for communication. The module is particularly suitable for adding analog inputs and outputs to the required I/O mix in a control cabinet, or as a control module for VAV boxes according to analog CO₂ sensors in variable air volume systems.

New Domat IDE version 2.6.0.7

domat
IDE

Domat IDE is a full replacement for previous versions of Merbon IDE. It retains all features from the latest version of Merbon IDE 2.5.0.7.

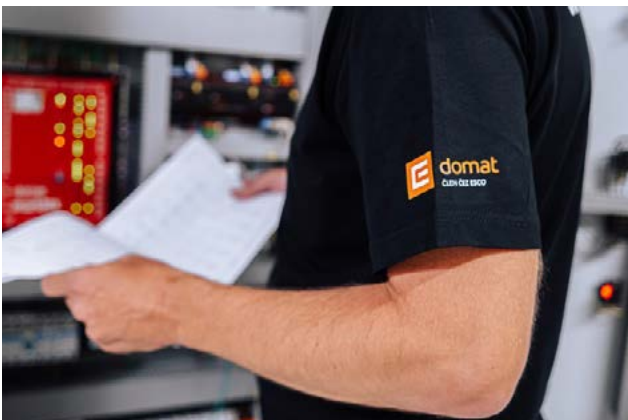
The Domat IDE 2.6.0.7 release brings new features in the form of an application rebrand, the addition of new markMXL, mark520, w751-9301 and w750-8212 platforms, the addition of new HT3xx touch control terminals, and the addition of the Hauser (.NET), Daikin iTC (.NET) and Text Parser (.NET) communication protocols. You can read about other new features, fixes and compatibility in the [Release Notes](#).

The program works on operating systems with .NET Framework 4.7.2 or later - i.e. Windows 8 or later (Win10, Win11).

MW240B for blinds control - firmware V20 (27.4.2023)

Since firmware version 20, new registers have been added to the Modbus map: r. 25 and r. 26, which mirror r. 17. This change helps to make the Domat IDE (Merbon IDE) easier (more natural) to use. It is no longer necessary to use bitwise decomposition and composition. Register 25 is written as single bits after coils, register 26 is written as uint after registers - see Modbus table. This method is now recommended.

ARTICLES



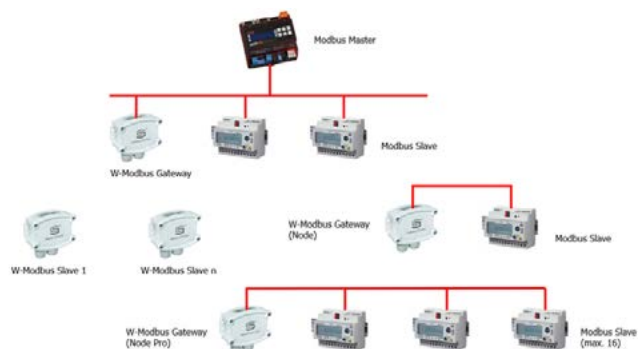
Port monitor in Ethernet networks

The port monitor is an invaluable aid when reviving communications with 3rd party systems. It is a function or device that allows you to read the data as it is transmitted over the communication buses and, if necessary, analyze it to immediately show the cause of the problem.

Gateway for wireless Modbus

During renovations as well as new implementations, we may come across a situation where we need to bring a bus with I/O modules or a power meter from a remote location to a PLC cabinet, but it is not possible to build a conventional cable or fiber optic route.

Typically, this is a substation with a premises foot meter that is several hundred metres away from the main building and not connected to it in any way. In this case, new components can help - wireless modbus gateways to RS485.



REFERENCES

GREEN COMMUNITY OF THE YEAR

Domat Control System participated in the project Optimization and energy reduction of buildings in the village of Blažovice.

The project also included complete monitoring and management of energy consumption. All data is completely managed through the Merbon Scada visualization environment. It is worth mentioning that the municipality of Blažovice won 3rd place for this project in the national competition as Green Municipality of the Year 2024.



DOMAT INSTALLED PV AND BATTERY CONTROL SYSTEMS FOR MOSER AND ABB

During 2024, control systems were delivered for glass works Moser in Carlsbad and industrial plant ABB in Mošnov that communicate with and control the photovoltaics and two battery storage systems to maximise the energy produced for the company's consumption.

The PV plant primarily provides for the company's consumption, and if it produces more, the excess energy is stored in the batteries. The batteries have the capacity to cover about 50 % of the nightly consumption. When the batteries are charged to 100 %, the inverter output is limited to avoid overflows to the grid. If the customer agrees with the distributor to supply excess power to the grid, overflows are allowed.

The control system also integrates generation and battery storage meters, a compensator and the signals necessary for dispatching. More than 30 selected values are monitored, stored in a database and evaluated on a long-term basis. Remote access to the equipment is already set up as standard for control system, inverter and battery storage suppliers, which greatly facilitates diagnostics and servicing.



TRAININGS

We have two more training dates this year for which there are still places available. All standard trainings are in Czech language.



7. 11., 9:00-15:00 - Domat IDE pro začátečníky, Pardubice

5. 12., 9:00-15:00 - Domat IDE pro pokročilé, Pardubice

Programs of individual trainings can be found [HERE](#).

Please register at skoleni@domat.cz.

Also follow our [news](#) and [calendar of events](#), where we will inform you in time about any changes or newly announced dates. News regarding not only training can also be found on our social networks:



DOMAT SUPPORT ON WHATSAPP



Customer support is important to us and we try to constantly improve it and adapt it to your requirements. To make it even easier for you to communicate with our technical support, we have set up **WhatsApp: +420 732 806 418**.

YOUTUBE TUTORIALS AND FAQ



The technical support section on our website is regularly updated with new articles and instructions. The same goes for our **Youtube channel**, which we are also trying to expand with new tutorials. If you are solving a certain problem and you are looking for a specific solution, don't forget to study our FAQ and videos.



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