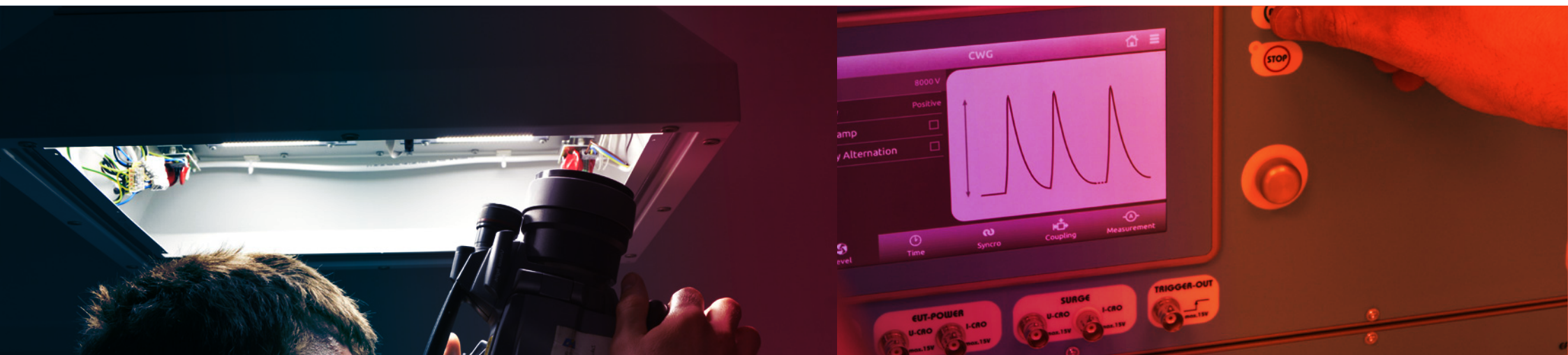


ELECTRONIC CONTROL SYSTEMS

MILOO
ELECTRONICS

IMPROVES YOUR LIFE



ELECTRONICS | LED LIGHTING | AIR DISINFECTION

DISCOVER MILOO-ELECTRONICS

MILOO-ELECTRONICS - Polish manufacturer of LED lighting under MILOO LIGHTING brand as well as electronics, optoelectronics and control automation.

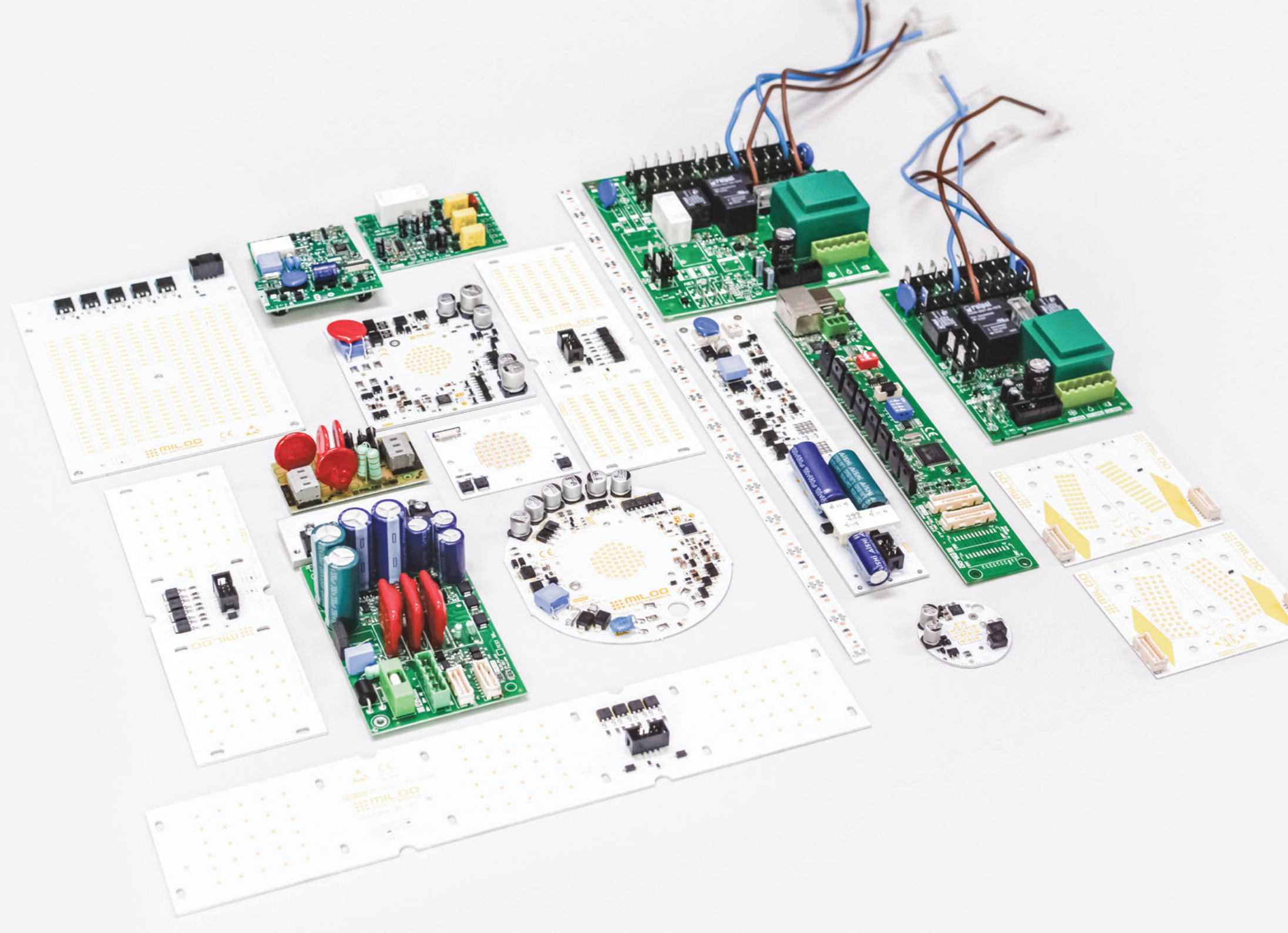
The company, located in Małopolska, is also involved in other fields, including smart-building and smart-lighting, developing control systems and software to manage smart buildings and street lighting.

The company runs its own colorimetry and electromagnetic compatibility research laboratory and operated state-of-the-art machinery.

MILOO-ELECTRONICS has implemented many different projects for large international corporations and local companies, universities and health care facilities.

MILOO-ELECTRONICS range of products meets the highest European quality and safety standards.

STERYLIS was launched in 2020. It is the only UV-C device on the market to have been scientifically confirmed as effective in destroying the SARS-CoV-2 coronavirus. The research was carried out by the team of Collegium Medicum, Jagiellonian University at COVID hospital wards in Kraków and Bochnia.



We are designing electronic control systems for over 20 years. With our continuous development and innovative approach to designing we are able provide reliable and tailor-made solutions for our business partners.

Explore our solutions for industries such as:

- **HEALTHCARE**..... s. 6
- **REFRIGERATION EQUIPMENT**..... s. 8
- **E-GROCERY** s. 10
- **HVACR** s. 12
- **UV-C DISINFECTION** s. 16
- **LED LIGHTING** s. 18



THE HEALTHCARE SECTOR

Our projects portfolio includes a number of solutions for the HEALTHCARE & MEDICAL industry, which we have developed in the cooperation with scientific institutions. These are not only control systems solutions but also comprehensive, innovative products from ECG, osteoporosis or light therapy (Visible Incoherent Polarized Light Treatment) areas.





REFRIGERATION EQUIPMENT

Over 20 years ago MILOO-ELECTRONICS launched a range of solutions for commercial refrigeration equipment, which are used not only in the food, retail and HORECA sectors but also in medicine, pharma and industry.

This product category covers both compact as well as complex and specialised solutions for different industries, including the dairy processing industry.

Controllers and temperature loggers, apart from their standard functions, will also enable monitoring the continuity of the cold chain and feature GSM telemetry modules for remote reporting of the condition of equipment operation and possible failures.





E-GROCERY

We delivered a custom solution for the E-Grocery market leader in Europe that manages 3 different temperature zones for food products.

The system is a micro-network of autonomous modules integrated with the central unit that facilitates expanding/developing the final product without limitation (scalability).

The solution, in top of its basic functions, enables complete management of the device from the outside and control of processes, for instance with regard to safety (HACCP temperature monitoring) or constant monitoring of energy consumption, ON/OFF function, possible software update and full communication. It also utilises a self-diagnosis and notification function in case of malfunctions.



INVERTER GENERATORS

For this category of products we offer advanced PLC class solutions utilising algorithms that optimise operation of the device against many variables including atmospheric conditions, thus improving the performance of the device and ensuring high comfort and reliability.

The solutions are compatible with the BMS class system.



HVACR EQUIPMENT

We developed a fully proprietary solution for HVACR equipment sector, which marks an evolution of the PLC class control expanded with a water section.

The system, of a master controller and a slave controller configuration, features a LCD touch panel.

It controls 4 modes of device operation:

- Heating mode (CO)
- Domestic hot water (DHW) preparation mode
- Heating mode and domestic hot water preparation (CH + DHW) mode
- Domestic hot water preparation and air conditioning (DHW + AC) mode

The solution is compatible with the BMS class system, offers full IoT functionality including dedicated mobile application (full process management, self-diagnosis, failure signalling).



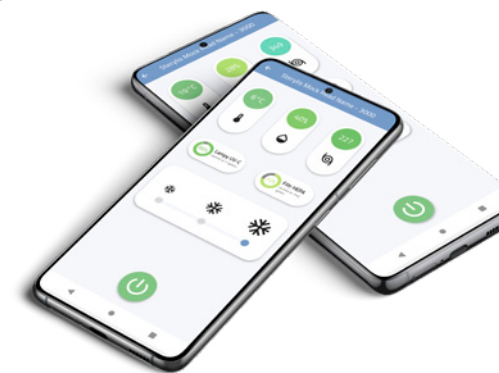


UV-C DISINFECTION

In the air and surface disinfection category products, we developed a process management solution in the UV-C technology and the use of ozone generators.

The solution, based on dedicated software and microprocessor controller, fully controls processes of air and surface disinfection with particular emphasis on safety, effectiveness and easy maintenance by the user.

The system facilitates remote monitoring of the device's operation, reading of parameters, their modification and signalling of malfunctions.



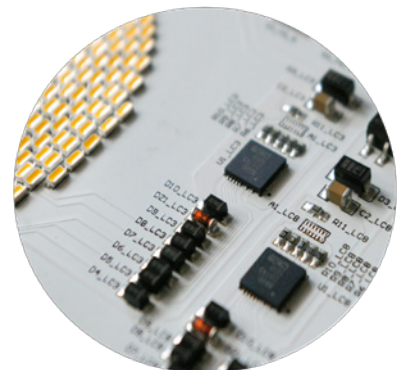


LED LIGHTING

Digital Addressable Lighting Interface - DALI is a communication protocol for lighting systems.

It is used for communication between lighting control devices such as electronic ballasts, light intensity sensors or occupancy sensors. The DALI protocol is used in building automation to control single luminaires and groups of luminaires.

MILOO-ELECTRONICS designed a power supply system for LED luminaires with integrated control module in DALI standard, fully compatible with all available 'smart-lighting' and 'smart-building' control systems.

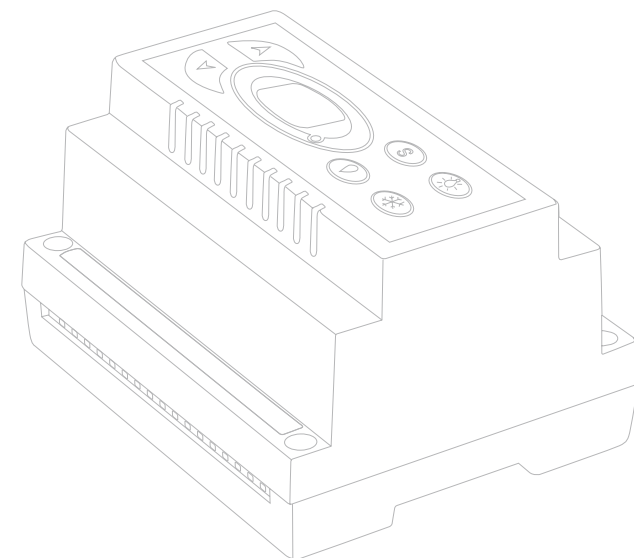
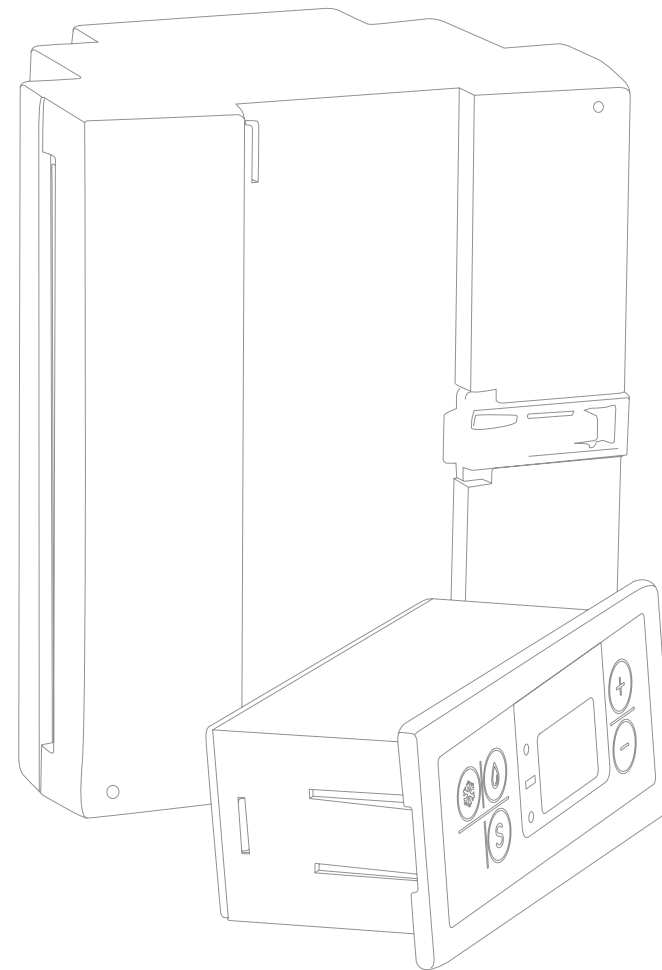




TAILOR-MADE SOLUTIONS

Developing custom, high - tech solutions is the core part of our business.

Regardless of whether you want to adapt an existing solution to new requirements or create a completely new one - we will use our competences in joint project work to meet the challenge and deliver a solution to the highest standards.



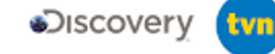


SUBSTANTIVE COOPERATION

Our projects are created with independent research units in close cooperation with the scientific institutions.



OUR CUSTOMERS:





**WE ARE LOOKING FORWARD
TO WORK WITH YOU**



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