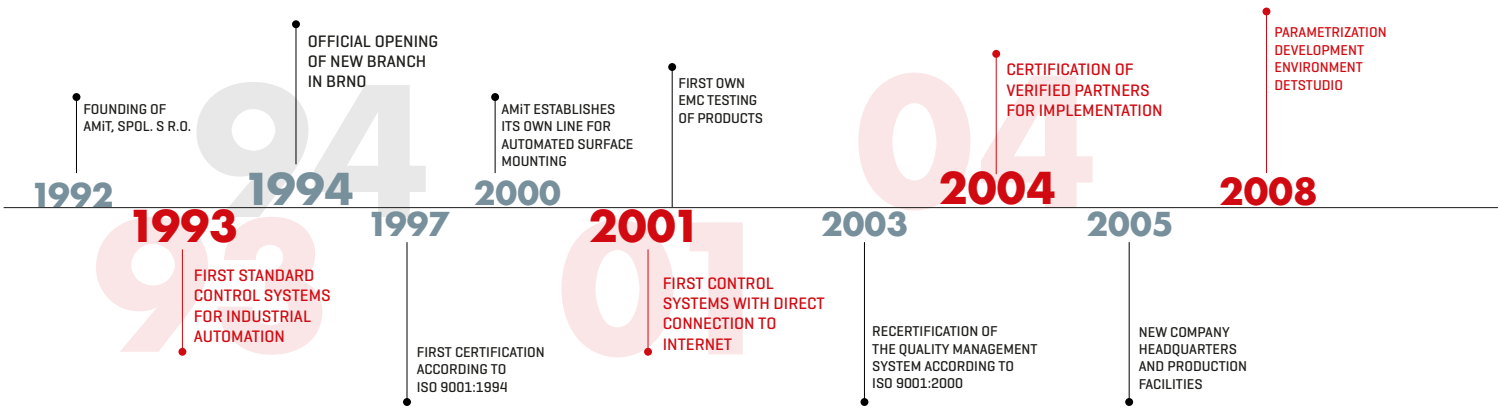
# CUTTING-EDGE ELECTRONICS
## FOR INDUSTRIAL AND BUILDING AUTOMATION

AMiT automation

# **CONTROL SYSTEMS AND ELECTRONICS** FOR INDUSTRIAL AND BUILDING AUTOMATION

**AMiT is a leading Czech manufacturer of control systems and electronics** for industrial automation and building automation.

We have achieved a significant position on the market mainly thanks to the close connection of development with modern production.

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# **WE ARE** CERTIFIED

**ISO 9001**
Quality Management System

**ISO 14001**
Environmental Management System

**ISO 45001**
Occupational Health and Safety Management Standard

**ISO 27001**
Information Security Management Systém

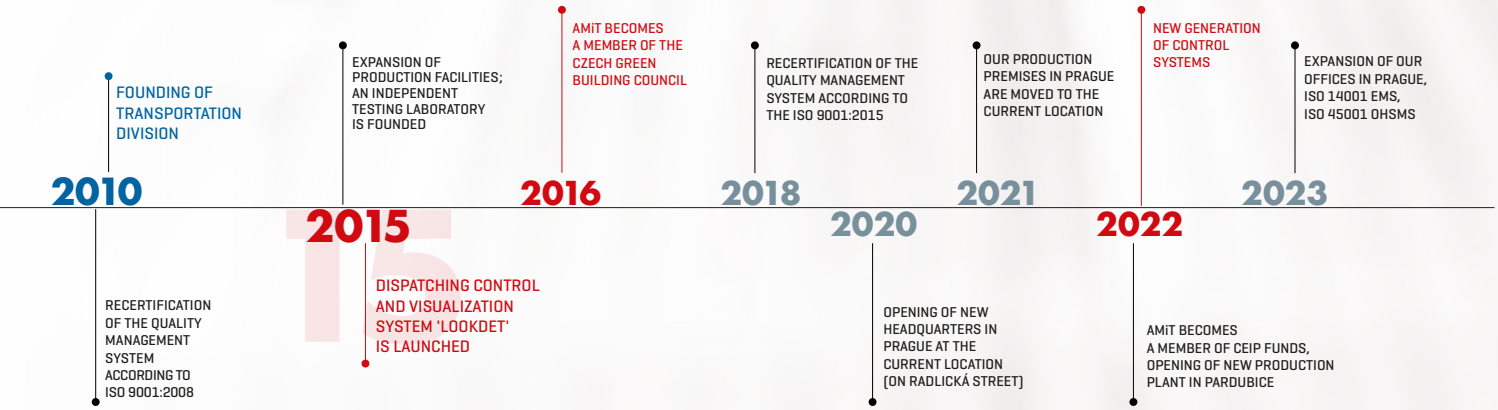
## VISION

We want to become the most important supplier of control systems for building automation and automation of technological complexes in the European Union. We want to be both a reliable and sought-after partner in design and implementation of solutions of any size – from autonomous regulations to extensive sophisticated systems for controlling and monitoring data.

We want to be an attractive employer for dynamic colleagues who have the ambition to create solutions and follow them through to their final implementations. We support the synergy between the company and its employees and keep increasing direct employee responsibility for the company results and successes.

## MISSION

Our mission is to constantly seek and propose solutions to be implemented at our business partners in order to satisfy as far as possible even the future requirements of automation devices end users. Automation is not the goal in itself, it is a tool to make the users reach their goals.



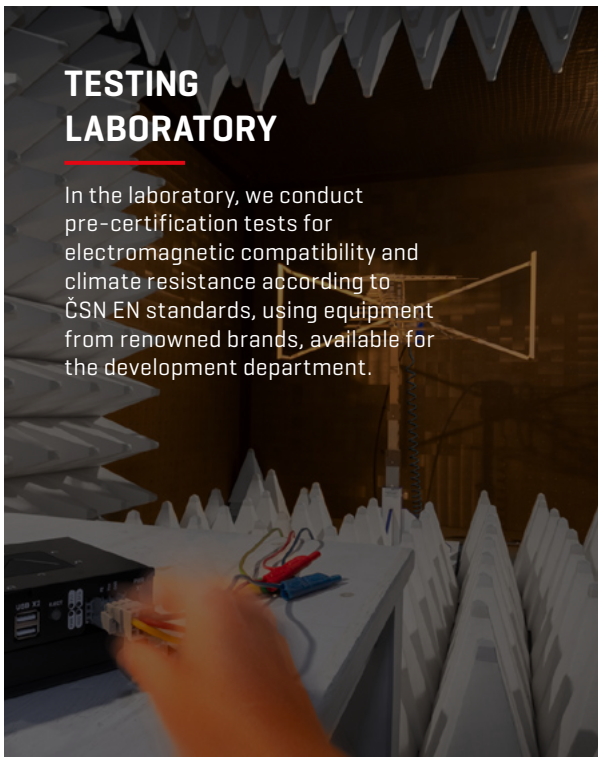
# **HOW** WE DO IT:

## DEVELOPMENT HW AND SW

We use modern technologies and extensive instrumentation for the creation and validation of products. We closely collaborate with other departments for optimal results.

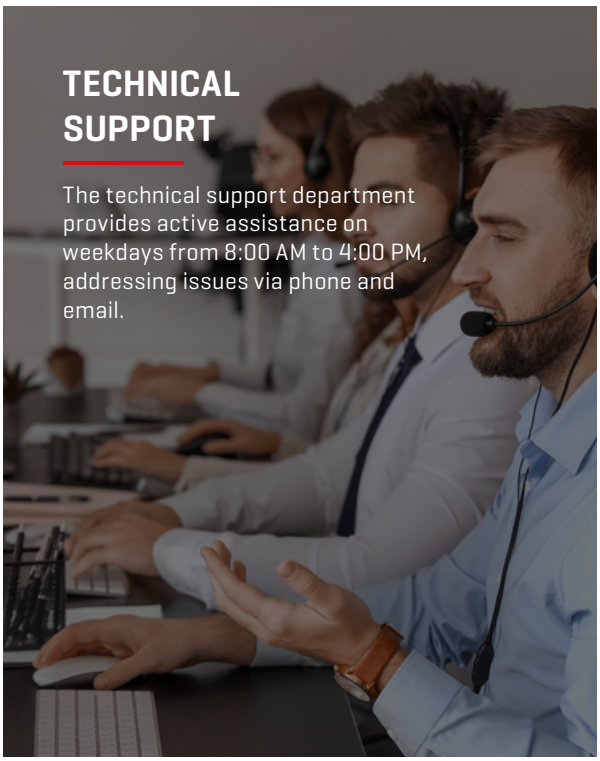
## IN-HOUSE MANUFACTURING

Production is divided into PCB assembly and testing of final products. SMD assembly is automated with SPI and AOI inspection.



## TESTING LABORATORY

In the laboratory, we conduct pre-certification tests for electromagnetic compatibility and climate resistance according to ČSN EN standards, using equipment from renowned brands, available for the development department.



## TECHNICAL SUPPORT

The technical support department provides active assistance on weekdays from 8:00 AM to 4:00 PM, addressing issues via phone and email.

# **AMiT** AUTOMATION

The AMiT company is one of the most important players in the field of manufacturing of control systems and electronics for industrial and building automation. We are a major player of the market largely due to our close involvement with state-of-the-art manufacturing technology and because of our unrivalled superior technical support. Our high requirements for the quality of production and resulting products, supported by over 30 years of practical experience, guarantee successful implementations even for the most demanding customers and contractors.

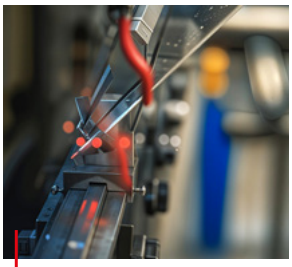
In addition to our own control systems and their electronic elements, we provide our partners and customers with our own know-how in the sphere of design and fine-tuning program tools which support a speedy and reliable launch of automation devices, including their on-going operation and maintenance.

# INDUSTRIES

**BUILDING AUTOMATION**

**ENERGY**

**WATER**



**MANUFACTURING AND MACHINERY**

**FOOD AND BEWERAGE**

**AGRICULTURE**

**PROCESS AUTOMATION**

**OTHER INDUSTRIES**

The field of industrial automation and building automation is our mission.
Our goal is to be part of companies that improve the standard and can thus contribute to sustainability and savings in the field of building management and automation and industry.
That is why we founded AMiT in 1992.

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# BUILDING AUTOMATION

VISIT US →

# SMART BUILDING AUTOMATION
## FOR MAXIMUM EFFICIENCY

Modern buildings require intelligent management to enhance user comfort, streamline operations and maintenance, and ensure sustainable, energy-efficient solutions. AMiT Automation systems – such as centralized and decentralized control units, IRC (Individual Room Control), and HMI's – enable full automation and monitoring of various types of facilities, ranging from office and residential buildings, hotels, and hospitals to industrial halls, sports complexes, schools, and university campuses.

- RESIDENTIAL/ OFFICES/FLATS/ SHOPPING CENTRES
- HOSPITALS/SPAS
- FACTORIES/ LOGISTIC CENTRES
- HOTELS/RESTAURANTS/ CONGRESS HALLS
- SPORTING FACILITIES/ SWIMMING POOLS/ ICE ARENAS
- SCHOOLS/ UNIVERSITIES/CAMPUS
- HVAC
- HEATPUMPS
- FANCOILS
- LIGHT CONTROL
- AIR CONDITIONING
- HEATING
- VENTILATION
- HEAT RECOVERY

# REFERENCE

## Business centrum HVAC control


The AMiT fancoil controller AMR-FCT20/DM manages climate control in individual rooms, ensuring optimal HVAC performance throughout the building. Wall-mounted controllers allow users to easily adjust temperature and airflow settings to suit their preferences, providing a comfortable and customizable environment. AMiT also controls the heat exchanger station and air handling technology, ensuring efficient energy management across the entire facility. All systems are monitored in real time via the LookDet system, enabling quick diagnostics and maintaining optimal performance.

PLAY VIDEO ▶

## Temperature, pressure, and energy flow control


AMiT has developed and supplies a custom control system for our customer, a top manufacturer of award-winning high-performance heat pumps. This tailored system precisely manages temperature, pressure, and energy flow, enhancing both the efficiency and reliability of each unit.

With continuous performance monitoring, the AMiT control system ensures that heat pumps operate at peak efficiency under diverse conditions, delivering an energy-efficient solution recognized by various technical awards.

PLAY VIDEO ▶

# ENERGY

VISIT US →

# INTELLIGENT SOLUTIONS
## FOR EFFICIENT ENERGY MANAGEMENT

The energy sector is constantly evolving, demanding ever higher levels of efficiency, reliability, and sustainability. AMiT Automation delivers advanced control and monitoring systems for a wide range of energy applications—from district heating management to renewable energy sources. These systems are essential for modern sustainable energy practices, particularly in leveraging renewables and environmentally friendly solutions.

- MUNICIPAL HEATING
- HEATING MANAGEMENT
- ENERGY DISTRIBUTION
- NETWORK QUALITY
- ENERGY MANAGEMENT
- HYDROPOWER PLANTS
- COGENERATION UNITS
- UTILIZATION OF WASTE HEAT
- GENERATORS
- SOLAR POWER PLANTS

# REFERENCE

## Hospital premises Management

Our solution covers critical premise infrastructure such as boiler rooms, transfer stations, central cooling production, operating room air conditioning, individual room climate control, photovoltaics, water consumption monitoring, steam generators, and infectious waste incineration management.

All systems are seamlessly integrated into the LookDet central dispatch system, with access levels tailored to different employee roles and building managers.

PLAY VIDEO ▶

## Heat management in cities

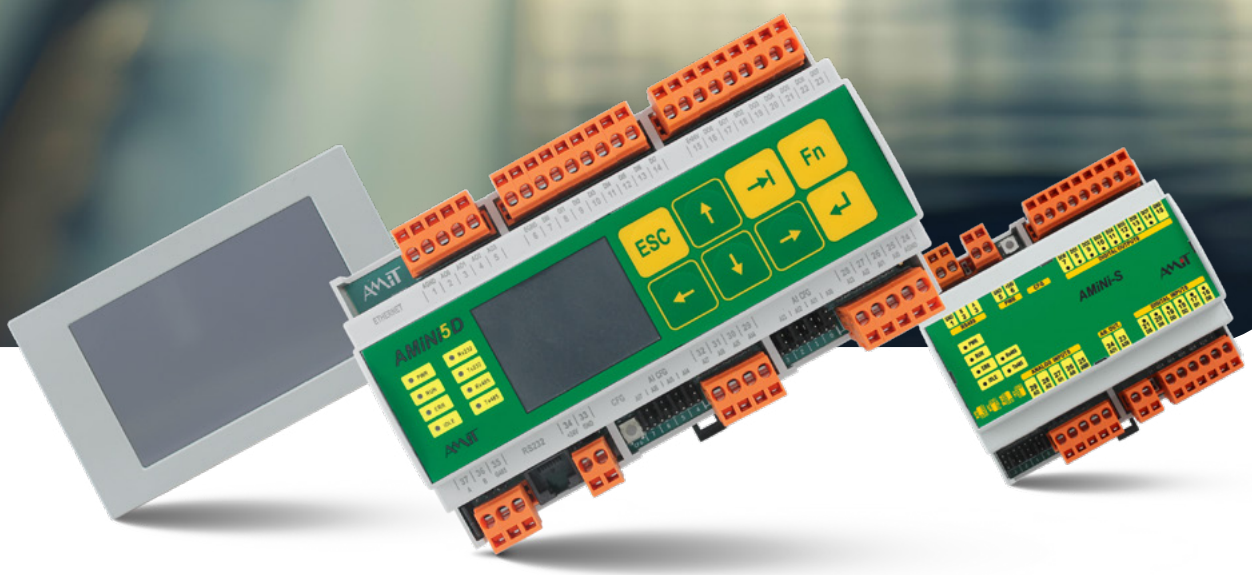
Our integration partner, manages heat supply for over 9.700 households, schools, the hospital, and industrial sites. Using AMiT's control systems our partner operates three major heating plants: Heating plant NORTH, SOUTH, and WEST, which also produce electricity for the power grid.

AMiT technology ensures efficient, real-time monitoring of heat transfer stations and gas boiler rooms, with 24/7 oversight from a central dispatch.This collaboration exemplifies how AMiT solutions provide reliable and efficient energy management. Partnering with AMiT enables to deliver consistent and secure energy services.

PLAY VIDEO ▶

# WATER

VISIT US →



# **AUTOMATION** FOR EFFICIENT WATER MANAGEMENT PROCESSES

Managing water processes requires reliability, precision, efficient resource management and a responsible approach to the environment. AMiT Automation systems provide advanced solutions for water treatment, wastewater treatment, reverse osmosis, and water quality monitoring, with a strong emphasis on minimizing the ecological footprint.

Thanks to our products ranging from regulators and compact PLCs to dispatcher systems – operations can be optimized, losses minimized, and high water quality ensured. In doing so, together with our partners, we contribute to the protection of natural water resources and the reduction of emissions associated with the operation of water management facilities. We offer scalable solutions for both industrial and municipal water systems, enabling automation, remote supervision, and integration into central control systems.

Efficient and environmentally friendly management of water processes is key to a sustainable future.

**WATER TREATMENT**

**WASTE WATER TREATMENT**

**REVERSE OSMOSIS**

**WATER MONITORING**

**WATER PUMPING STATION**

# REFERENCE

## Wastewater Treatment Plant Oslavička

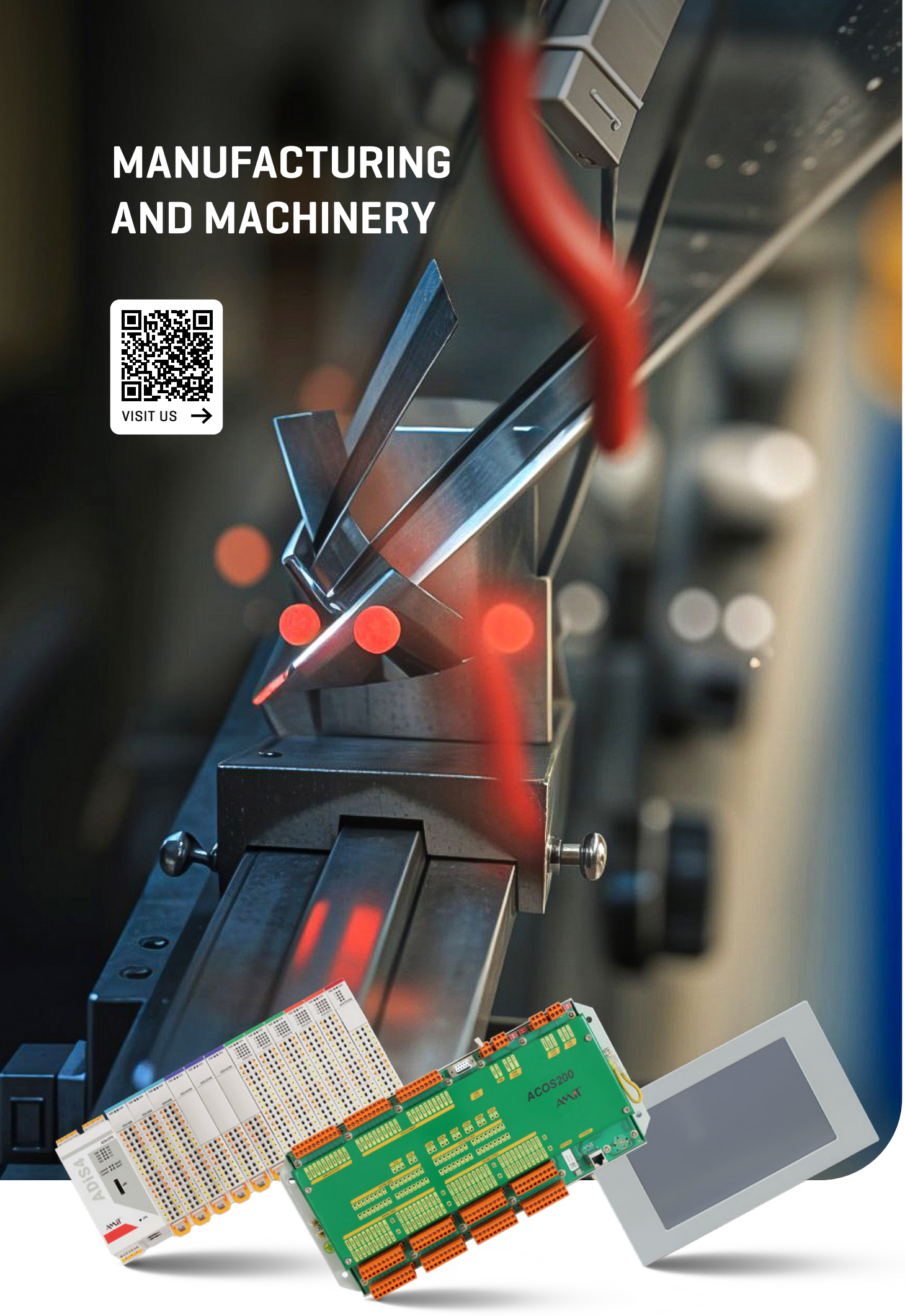
AMiT's integration partner has successfully developed wastewater treatment technology based on the AMiNi control system, installing it in numerous locations. The main treatment process relies on specialized bacteria, whose activity is regulated by the supply of oxygen, requiring reliable pump sequencing and the maintenance of precise temperature control.

In the village of Oslavička, our partner has implemented a wastewater treatment system using AMiT hardware to serve the local community. This installation provides efficient and reliable wastewater management, tailored to the specific needs of the residents. Our partner has completed dozens of similar projects, contributing to the development of sustainable and well-managed wastewater solutions throughout the region.

PLAY VIDEO ▶

# MANUFACTURING AND MACHINERY

VISIT US →



# **AUTOMATION** FOR MAXIMUM PRODUCTION EFFICIENCY

Modern industrial production requires speed, precision and reliable intelligent process control. AMiT Automation systems provide advanced automation solutions for production lines, process units, automated machines, measuring and testing equipment as well as production control and monitoring.

With our technologies, production processes can be optimized, efficiency can be increased and maximum production quality can be ensured. Thanks to a modular approach and a wide range of communication protocols, we offer solutions tailored to specific customer requirements, for example in furniture production, where automation supports material savings and increases processing accuracy. With AMiT Automation, you get a partner who can help you to meet even the demanding challenges of modern industry. Use our PLC, IO, HMI, SCADA, etc.

**SINGLE-PURPOSE AUTOMATED MACHINES**

**MEASURING AND TESTING EQUIPMENT**

**TECHNOLOGICAL UNITS**

**PRODUCTION AUTOMATED LINES**

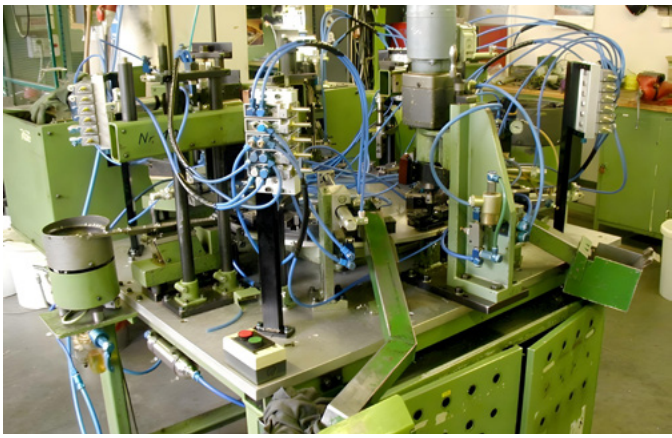
**PRODUCTION MANAGEMENT AND MONITORING**

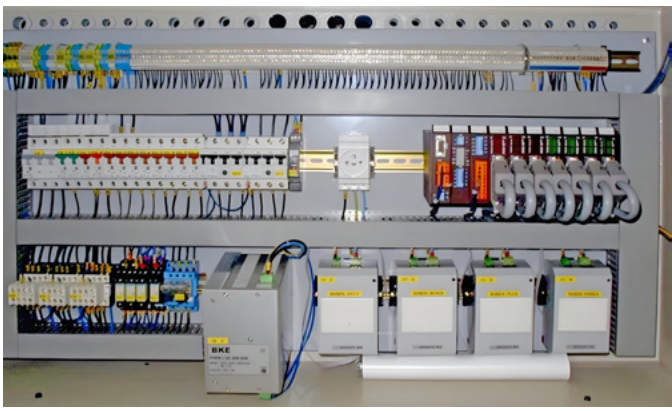
# REFERENCE

## Manufacturing of Folding Rulers

Our long-term partner designed a unique machine for the Czech manufacturer of folding rulers. The machine produces special components for the ends of wooden folding rulers, allowing them to fold easily while staying firmly in place when needed. Each operation takes just 2.5 seconds.

The first machines were launched back in 2004 and still operate reliably today. The control program runs on our Det Studio system, which ensures stable and dependable performance.





# FOOD AND BEWERAGE

VISIT US →

# EFFICIENT AND HEALTHY
## FOOD PRODUCTION

Modern food production places high demands on hygiene, process accuracy and efficiency, and production quality. AMiT Automation provides reliable process automation solutions that improve production control, optimize energy consumption and prevent waste. AMiT products such as control systems, communication modules, transmitters or web displays enable precise monitoring, remote management, stable control and easy integration into existing systems in small and large-scale plants. With extensive experience and proven partners, AMiT provides reliable solutions for wineries, breweries, dairies, sugar factories, food quality monitoring or automated packaging.

AMiT technologies enable optimization of production processes, ensuring consistent quality and reducing operating costs. With advanced monitoring and control, you gain full control over every stage of production, from raw materials to the final packaged product.

Smart automation for safe, efficient and modern food and beverage production.

WINERY

BREWERY

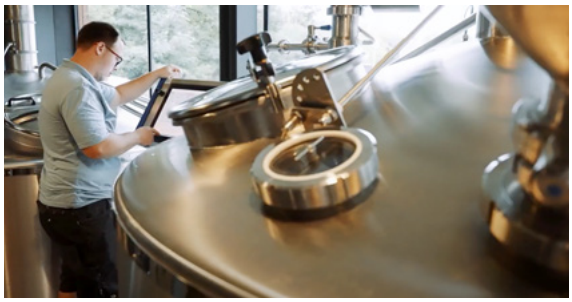
DAIRY PLANT

FOOD MONITORING

FOOD PACKAGING

# REFERENCE

## Prague brewery Hostivar



AMiT's control system has been implemented at the Hostivar brewery to manage the brewing process and controlled fermentation. The system regulates temperature, timing, and mixing in each phase, ensuring consistent quality across batches.
During fermentation, it maintains optimal conditions, and the heat from cooling beer is reused to preheat the next batch, creating an economical and energy-efficient solution.

PLAY VIDEO ▶

The Hostivar H1 Brewery has been crafting beer since 2013 and has become a popular spot where guests can enjoy a wide selection of beers in a stylish restaurant setting. The brewery's success is evident in its expansion: since 2017, it has been joined by a "younger sibling," Hostivar H2!

## Winery Lahofer

This winery has become a symbol of entrepreneurial success in the region, as its production has grown to one million bottles per year.
A key role is played by controlled fermentation, which allows precise temperature settings for each individual tank. This process is managed by our AMiT AMINI4W2 system, which uses temperature sensors to automatically regulate servo valves and maintain ideal conditions for producing high-quality wine.
The system was installed by our partner.

PLAY VIDEO ▶

# AGRICULTURE

VISIT US →

# MODERN AGRICULTURE

AMiT control systems are widely used in agriculture, both on farms, in greenhouses and polyhouses, and in the control of agricultural machinery. They enable efficient management of key processes such as irrigation, fertilisation or intelligent climate control, heating and ventilation, thereby increasing yields, reducing operating costs and improving the sustainability of production. Automation through our programmable automation, imaging devices, monitoring systems and systems for data storage and processing help monitor and manage key processes with an emphasis on efficiency and minimising environmental impact.

These solutions support modern and sustainable farming practices that help farmers achieve higher yields even in challenging conditions.

Modern farming under control - with greater efficiency and lower costs.

**FARMS**

**GLASSHOUSES**

**HOTHOUSES**

**AGRICULTURE MACHINES AND VEHICLES**

# REFERENCE

## Kožichovice farm complex

A farm complex produces up to 1,200 tons of tomatoes each year, using AMiT products to control and monitor machinery responsible for supplying power and heat, as well as for the effective distribution and storage of these crucial resources. In fact, enough resources are generated to supply neighboring factories at affordable prices. This installation showcases ecological thinking, as the $CO_2$ produced by the cogeneration units is supplied to the plants for optimal growth!

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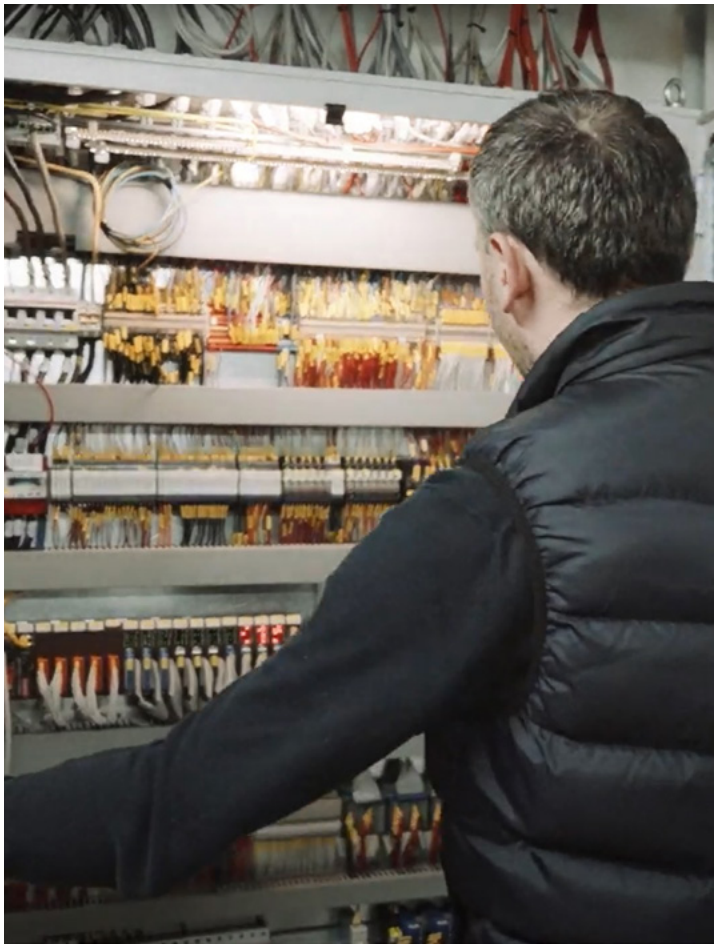
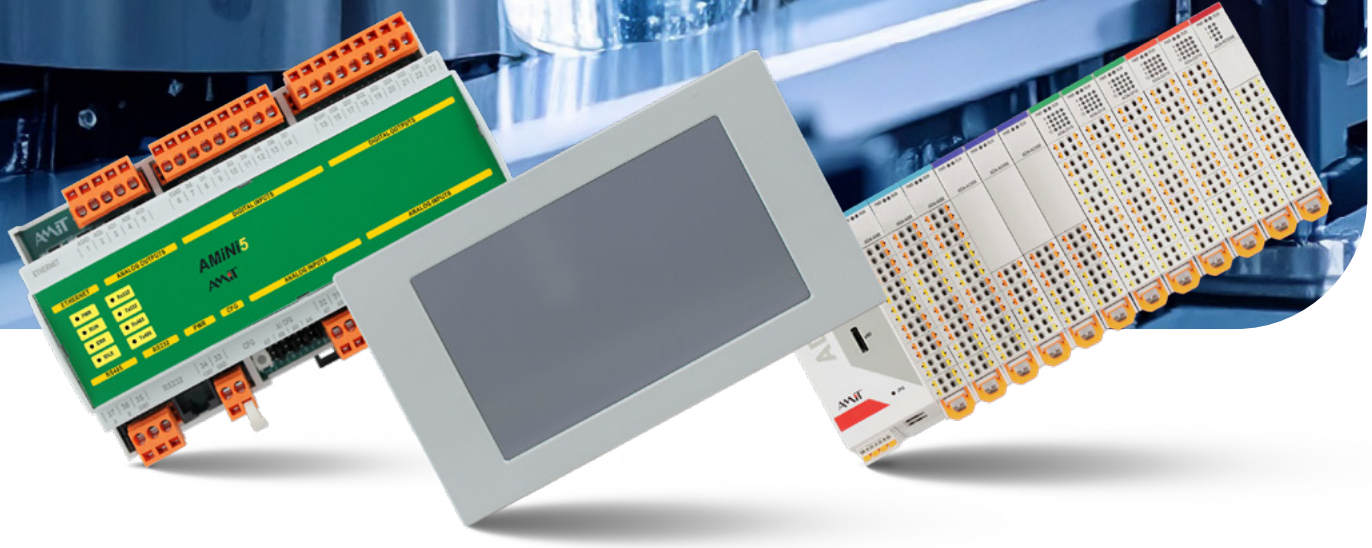


# PROCESS AUTOMATION

VISIT US →



# **AUTOMATION** OF INDUSTRIAL PROCESSES

Nowadays, automation as a representative of the industrial revolution is used in virtually all sectors of production. Industrial production and raw material processing thus require reliable, precise and flexible control systems. AMiT Automation systems help to optimize and control key processes in the mining, chemical, mineral processing, metallurgy, construction, woodworking or stone industry. These automation systems integrate key functions such as variable measurement and fault diagnosis together with visualization, monitoring, real-time optimization of production processes, as well as predictive maintenance and remote service on a single platform. This ensures flexibility, reliability and easy scalability, helping our clients achieve higher productivity and quality in their operations.

Intelligent automation - for a safe, efficient and sustainable industry.

MINING

CHEMISTRY

MINERALS PROCESING

METALLURGY

CIVIL ENGINEERING

CONSTRUCTION

WOODWORKING

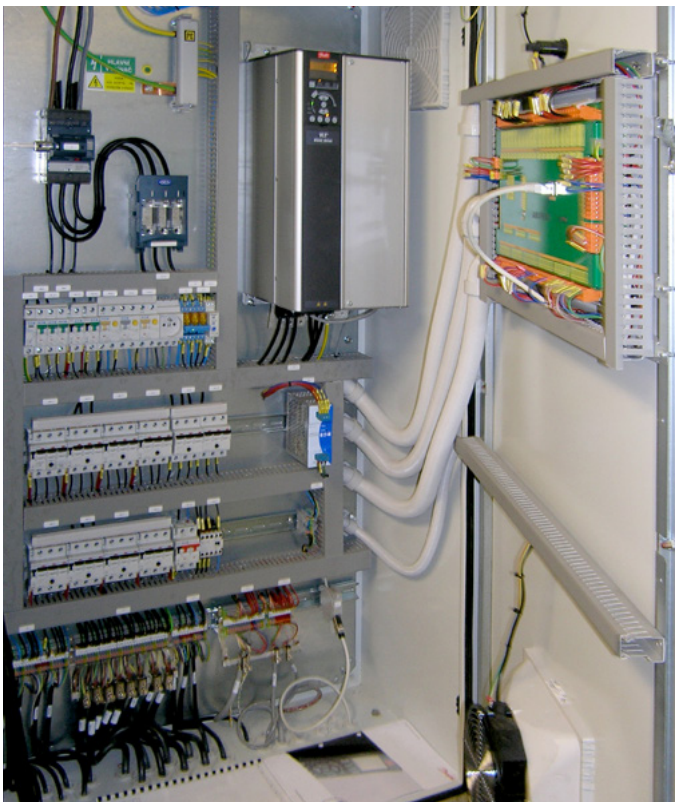
STONEMASONRY

# REFERENCE

## Wood drying technologies

AMiT Automation control systems are used in wood drying technologies. The first installation took place in 2004 and since then approximately 1,000 projects have been implemented with several thousand control units deployed worldwide.

Pressure humidification using AMiT Automation products is also supplied for drying systems. The solutions are used for example, in Chile, Egypt, Mongolia and Indonesia, as well as Sweden, Finland, the Czech Republic and Slovakia which are among the largest customers.



# OTHER INDUSTRIES

VISIT US →

# **AUTOMATION** FOR A WIDE RANGE OF INDUSTRIAL SECTORS

Modern industrial sectors require reliable, flexible, and efficient solutions for managing production and logistics processes. AMiT Automation systems are used in healthcare, consumer goods manufacturing, transport, railway infrastructure, and logistics.
Our technology enables intelligent process control, operational optimization, and real-time monitoring. Thanks to scalable and adaptable solutions, we can efficiently automate production, distribution, and transportation, thereby contributing to higher productivity, cost reduction, and improved service quality.

Smart automation for a more efficient industry and modern infrastructure.

**HEALTHCARE**

**CONSUMER GOODS PRODUCTION AND LOGISTIC**

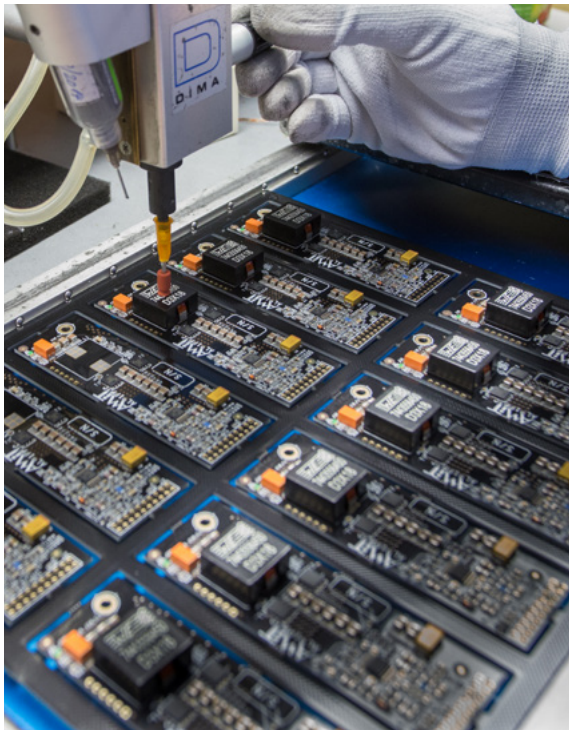
**TRANSPORTATION**

**RAILWAYS**

**LOGISTICS**

# REFERENCE

## AMiT Transportation




AMiT Automation – Tailored Technology for AMiT Transportation.

Within the AMiT group, we closely collaborate with the AMiT Transportation division to develop specialized automation solutions for transport systems. We design and manufacture control systems that meet the demanding requirements of railway, tram, and bus transportation – from hardware to software. Our solutions are always tailored to each specific project and focused on maximum reliability, safety, and long service life in challenging operational conditions.

Thanks to our in-house development and manufacturing in the Czech Republic, we offer flexibility and technical support you can rely on. AMiT Automation – technology that keeps transportation moving.

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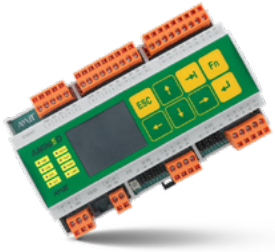
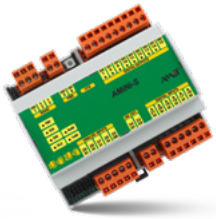
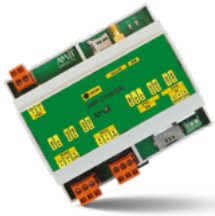
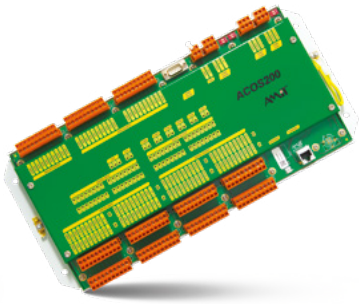
# PORTFOLIO OVERVIEW

## CONTROL SYSTEMS

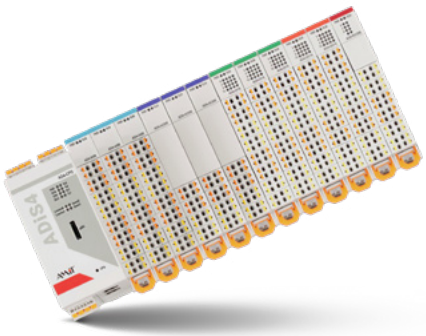





| | DI | DO | AI | AO | Interface | HMI |
|---|---|---|---|---|---|---|
| **AMiNi5** | 8 | 8 | 8 | 4 | RS232, RS485, Ethernet, SD, web server | (122 × 32) points , 8 keys |
| **AMiNi5D *** | 8 | 8 | 8 | 4 | RS232, RS485, Ethernet, SD, web server | (320 × 240) points, 8 keys |
| **AMiNi-S/U **** | 6 | 8 | 4 | 2 | RS485, Ethernet, SD, web server | |
| **AMR-CP4x** | – | – | – | – | RS232, RS485, Ethernet, SD, web server, (Poseidon 868 MHz) | |
| **ACOS200** | 32 | 32 | 16 | 8 | RS232, RS485, Ethernet, 2× (RS232/RS485/CAN), SD, web server | |

* Includes an application for operating I/O (see operating manual)
** Can be used as a remote input and output module without the need for programming (with pre-loaded application)

- freely programmable
- ideal price-performance ratio
- high interference resistance
- integrated display and keyboard
- easily expandable with remote I/O modules
- supports standard communication interfaces
- freely parametrisable web server
- operating temperature range -20 °C to 70 °C

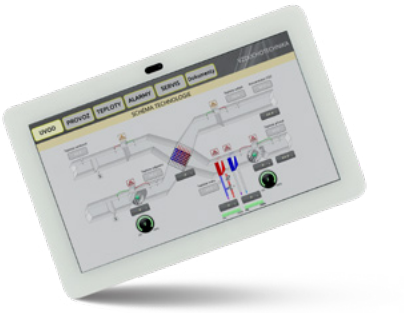
## MODULAR CONTROL SYSTEMS



| Overview of modules | |
|---|---|
| **CPU Units** | |
| **AD4-CPS/01** | 2× Ethernet, web server, up tp 64 I/O modules |
| **AD4-CPS/02** | 2× Ethernet, RS232, RS485, web server, up to 64 I/O |
| **IO Modules** | |
| **AD4-DI16** | 16× digital inputs 24 V DC/AC, GI |
| **AD4-DO16** | 16× digital outputs 24 V DC, GI |
| **AD4-RD006** | 6× relay outputs |
| **AD4-AI08** | 8× analogue inputs (U/I/RTD/NTC), GI |
| **AD4-AO08U** | 8× analogue outputs (0 V to 10 V), GI |
| **AD4-AO08I** | 8× analogue outputs (0 mA to 20 mA), GI |
| **Communication module** | |
| **AD4-UART4** | 2× RS485, GI |

- modular design
- application-based I/O optimisation
- wide range of I/O modules
- special purpose modules
- extensive communication capabilities
- operating temperature range -40 °C to 70 °C
- CPU – RS232, RS485, Ethernet, SD card
- freely parametrisable web server

## WEB OPERATOR PANEL (NETPANEL)



| | Display | Interface |
|---|---|---|
| **ANP-50** | 5″ multitouch, (854 × 480) points | 1× Ethernet |

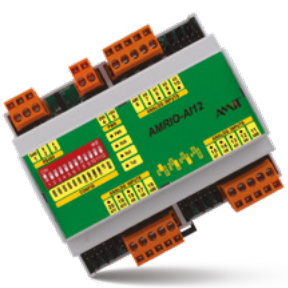
- universal operator panel for device operation with an integrated web server
- slim, elegant design that meets most interior requirements
- high-quality graphic display with high resolution and excellent viewing angles
- easy installation and setup
- mounts on a KU 68 installation box or distribution cabinet doors
- option to use a locking screw for vandal resistance
- access protection with an optional password

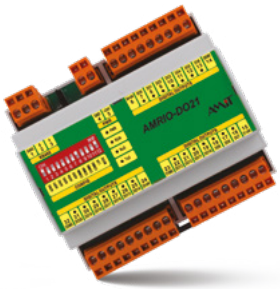
## OPERATOR AND CONTROL HMI´S

| | Display | Interface |
|---|---|---|
| AMR-OP83 | (320 × 240) px, 65,536 colours, graphic, touchscreen, 3.2″ | 1× RS485, optional serial interface, Ethernet, SD, web server |
| AMR-OP87/V | (320 × 240) px, 65,536 colours, graphic, touchscreen, 3.2″ | 1× RS485, optional serial interface, Ethernet, SD, web server, (SMS/data) |
| AMR-OP87/P | (800 × 480) px, 65,536 colours, graphic, touchscreen, 7″ | 1× RS485, Ethernet, (Poseidon 868 MHz) |

- freely programmable control panels (HMI)
- graphic HMIs with touchscreens
- control HMIs also serve as control systems without direct I/Os
- selected models for extreme operating environments
- operating temperature range -20 °C to 70 °C

## REMOTE I/O MODULES



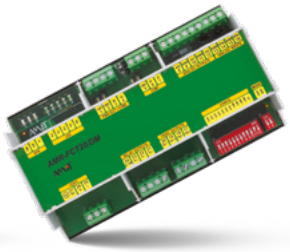


- smart extension I/O modules based on MODBUS RTU communication (RS485)
- up to 63 modules can be connected to a single serial RS485 line
- communication failure detection
- system support by all AMiT control systems and controllers
- freely programmable in DetStudio
- operating temperature range variants from -40 °C to 70 °C

| Overview of modules | |
|---|---|
| **AMRIO-DI24** | 24× digital input 24 V |
| **AMRIO-DO21** | 21× digital output 24 V |
| **AMRIO-AI12** | 12× analogue input 0 V to 5 V, 0 V to 10 V, 0 mA to 20 mA, RTD |
| **AMRIO-AO8I** | 8× analogue output 0 mA to 20 mA |
| **AMRIO-RDO12** | 12× NO relay |
| **AMRIO-AI8DO8** | 8× AI<br>8× digital outputs 24 V |
| **AMRIO-AI8RDO8** | 8× AI<br>8× NO relay |
| **AMRIO-AI8AO8U** | 8× AI<br>8× analogue outputs 0 V to 10 V |
| **AMiNi-S/U *** | 4× AI<br>2× analogue outputs 0 V to 10 V<br>8× digital output<br>6× digital inputs |

* with factory-installed application
** AI can measure U/I/RTD/DI and contact

## FREELY PROGRAMMABLE CONTROLLERS



- unified programming in DetStudio, EsiDet
- Ethernet communication with MODBUS TCP/IP, DB-Net/IP
- RS485 communication MODBUS RTU, ARION, DB-Net
- ideal for distributed systems with local intelligence
- option to create custom-made user applications

| | Specifications | I/O | Functions |
|---|---|---|---|
| **AMR-CU7xB** | graphic display, 1× RS485, 24 V DC | room temperature, 2× RTD, 2× DO, 1× AO | On-wall controller |
| **AMR-FCT20 *** | 2× RS485, 230 V AC | 3× NO relay, 3× AO, 2× DO 24/230 V AC, 2× RTD | Fan Coil unit controller |
| **AMR-UI2RDO2** | 1× RS485, 24 V DC | 2× RTD, 2× NO relay | flush mounted module / 35 mm DIN rail |

* Includes a FW application for operating (see operating manual)

## ON-WALL CONTROLLERS




| Controller variants | |
|---|---|
| **AMR-OP30ARH** | temperature, humidity measurement |
| **AMR-OP31ARH** | button, knob, LED – temperature, humidity, modes, correction |
| **AMR-OP33ARH** | button, LED – temperature, humidity, modes, correction |
| **AMR-OP35ARH** | button, knob, LED – temperature, humidity, modes, correction, Fan Coil rotations |
| **AMR-OP40RH(C)** | temperature, humidity, ($CO_2$) |
| **AMR-OP60RH** | 4× button, graphic back-lit LCD display, temperature |
| **AMR-OP70RH(C/P)** | graphic back-lit LCD display, touch screen, temperature, humidity, ($CO_2$ / Poseidon 868 MHz) |
| **AMR-OP75RHR(C)** | temperature, humidity, ($CO_2$), 1× RTD/NTC, 1× relay |

- measurement of temperature, relative humidity and $CO_2$ concentration
- local mode and correction control, option to use time plans
- user-friendly button control or control via touchscreen
- RS485 interface with communication protocols MODBUS RTU, ARION and DB-Net
- users can create custom graphic design of displays and control algorithms

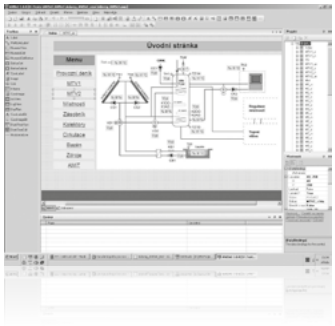
## INDUSTRIAL COMMUNICATION

| Communication converters | |
|---|---|
| **DM-232T0485A** | RS232 <-> RS485 line converter for 35 mm DIN rail |
| **DM-485T0485A** | RS485 <-> RS485 repeater for 35 mm DIN rail |
| **DM-MPBUS2** | MODBUS <-> MP-Bus converter for 35 mm DIN rail |
| **DM-OT2** | MODBUS <-> OpenTherm converter for 35 mm DIN rail |
| **DM-MBUS64** | converter M-Bus <-> Ethernet (RS232), 64 devices |
| **DM-RUT2** | LTE modem, Ehternet router |
| **DM-ESW05** | Ethernet switch 5× RJ45 |

- converters for industrial communication
- converters with integration into the MODBUS network
- LTE router
- industrial Ethernet switches

## DEVELOPMENT AND DEBUGGING TOOL

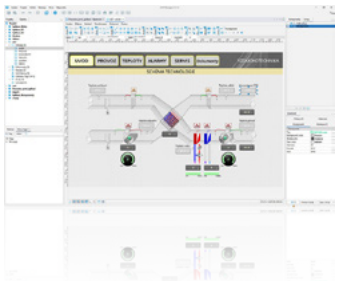
**DetStudio**



- user-friendly IDE for creation of applications for control systems and programmable controllers
- unified parametrisation for all types of control systems
- programming standards: ST/CFC
- option to create custom function blocks and subroutines
- on-line supervision and editing of process variables
- user-friendly WYSIWYG editor of user screens
- simulator of operator panels and control terminals
- support of multilingual applications, Unicode support
- clean English environment

## WEB VISUALIZATION EDITOR

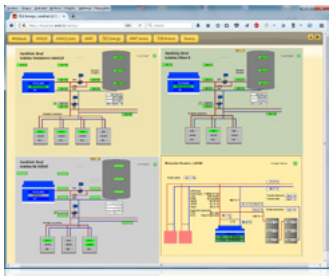
**AMiT Designer**



- user-friendly WYSIWYG editor
- extensive library of predefined components with the possibility of individual customization
- graphic components in SVG format modifiable directly in the editor environment
- animation and visual effects support
- design of web visualizations for devices with different display sizes – from mobile phones to tablets to large-format screens
- for demanding users a native JavaScript editor for scripting is available
- option to select SSL/TLS secure data transfer
- the editor is available for free – free download

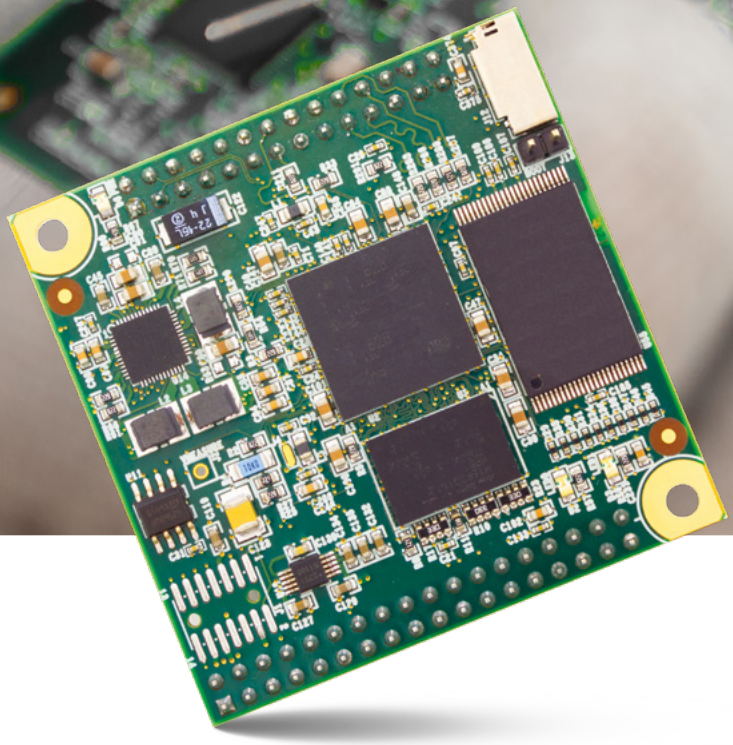
## SUPERVISORY SYSTEM (DISPATCHING)

**LookDet**



- dispatcher system based on a web server
- data collection, monitoring, and long-term archiving from control systems and measuring devices
- remote access to current values of the controlled technology
- monitoring of alarm states in technologies, tracking the resolution process of alarm situations
- user-friendly management – configuration without the need for programming knowledge
- possibility of user-created plugins (PHP, JavaScript)
- number of clients limited only by server performance and connection quality
- simple and transparent licensing policy

# CUSTOM



# **WHEN STANDARDS** AREN'T ENOUGH

Hardware development is a complex process that begins with the initial vision and specification of requirements, continues with schematic and PCB design, prototype production, and their thorough testing. Throughout the entire cycle, not only the functionality and reliability of the device are addressed, but also the selection of suitable components, mechanical design, and tuning based on feedback from the client. A modern agile approach allows for flexible responses to changes and a quicker path to an optimal solution, while always ensuring compliance with legislative requirements and necessary certifications, such as CE.

AMiT Automation offers its partners not only in-house development, but also preparation for serial production, including modifications for efficient assembly and the setup of quality control processes. The result is a final product that meets technical, legislative, and user requirements and is ready for deployment in the field exactly according to the customer's expectations.

**HARDWARE DEVELOPMENT**

**EMBEDDED FIRMWARE DEVELOPMENT**

**CERTIFIED TESTING LABORATORY**

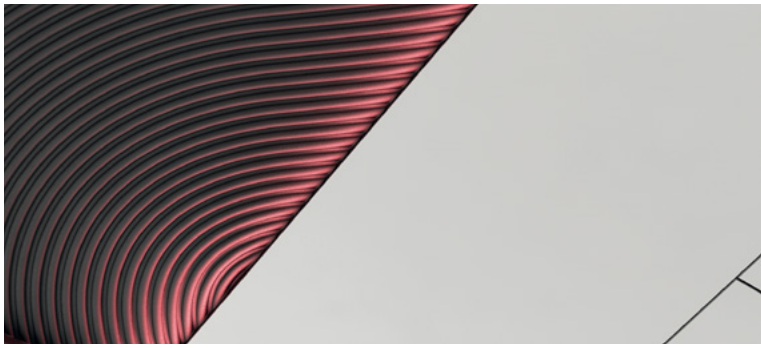
**IN-HOUSE PRODUCTION**

# REFERENCE

## A1 Magic

The A1 MAGIC system is designed to maintain optimal air quality and create a comfortable indoor environment. It ensures fresh air circulation, regulates temperature and humidity, and integrates seamlessly with home automation. Features include control of blinds, lighting, gates, and irrigation systems, providing year-round efficiency and convenience. The system allows precise control of temperature settings, blind adjustments, and lighting levels via the touch panel interface. Ventilation operates automatically based on air quality, monitored through $CO_2$ sensors.

PLAY VIDEO ▶



PLAY VIDEO ▶

See what drives
our success.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