



QUALITY IS OUR PRIORITY!

ALES

2020 ALES, SKOPJE

DESCRIPTION :

DDC : DIRECT DIGITAL CONTROLLER

DB : DISTRIBUTION BOARD (LIGHTING PANEL)

S/S : START/STOP

ST : STATUS

ALES

COMPANY PROFILE

FOUNDED: 1992

FIRST PRODUCT: 2004

NUMBER OF PRODUCTS: 10

ALES is a company with extensive experience on the market that provides an array of products and services within the electromechanical industry. The company's work experience is based upon three pillars, which are: **manufacturing, engineering and automation.**

Established in **1992** in Skopje, the company started working in the field of engineering which covers design and installation of high voltage electrical installations for residential, business and industrial facilities in accordance with design and installation standards. The company deals with consulting services in the same field as well. With its many years of experience ALES professionally offers this service according to the highest standards which can be proven by a number of successful projects, realized goals and continuous improvement.

As the result of technology development and industry progress towards automation, in the first years of its establishment the company started working in the field of automation. Particularly the company focused on automation and visualization of industrial processes, manufacturing machinery and HVAC systems. ALES develops automated control systems that include programming of programmable logic controllers (PLCs) and development of industrial user interface (HMI & SCADA). In **2004**, as a result of extensive experience in the electrical industry and many years of cooperation with companies in the mechanical industry, the company decided to expand with a **600 m²** working plant consisting of a production and warehouse area.



PRODUCTION

PRODUCTS

- Electric boilers for heating of residential and business facilities
- Electric boilers for heating of industrial facilities
- Electric duct heater for HVAC systems
- Power distribution cabinets for electrical installations

MANUFACTURING PROCESSES

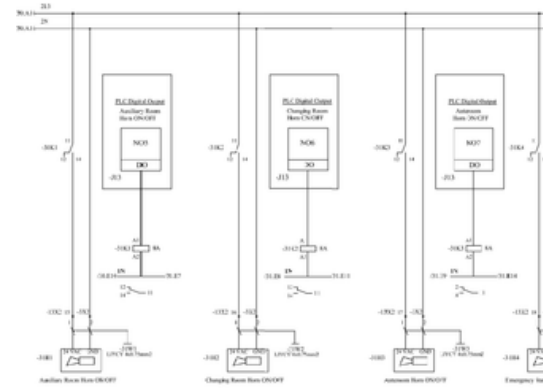
- Metal sheet processing and preparation (**semi-finished product**)
 - Sheet processing and cutting
 - Sheet bending
 - Sheet welding
 - Electrostatic powder coating
- Installation and quality control of components (**finished product**)
 - Installation of electrical components
 - Installation of mechanical components
 - Functionality testing of electrical and mechanical components



PAYING ATTENTION TO EVERY DETAIL OF OUR PRODUCT

ENGINEERING

The company provides trained personnel with the highest degree of competence, expertise and integrity, as well as qualified executives with qualifications in appropriate degrees of work certified with **Certificate B for preparation of project documentation in the field of electrical engineering** and **Certificate B for construction engineer in the field of electrical engineering**. The company is certified with **Licence B for design of third, fourth and fifth category buildings** and **Licence D for construction of fourth category buildings**. With particular focus on the healthcare and pharmaceutical industry we can offer complete solution for design and construction of electrical installations and automation of processes in accordance with the **Good Manufacturing Practice**.



Republic of North Macedonia
Ministry of Transport
and Communications

Licence B for design of third, fourth
and fifth category buildings



Republic of North Macedonia
Ministry of Transport
and Communications

Licence D for construction of
fourth category buildings



Attest for electric boilers for
heating No. AT-PEES-01/04



CHAMBER OF CERTIFIED ARCHITECTS AND
CERTIFIED ENGINEERS OF REPUBLIC OF NORTH MACEDONIA

Certificate B for preparation of
project documentation in the
field of electrical engineering



CHAMBER OF CERTIFIED ARCHITECTS AND
CERTIFIED ENGINEERS OF REPUBLIC OF NORTH MACEDONIA

Certificate B for construction engineer
in the field of electrical engineering

DESIGN AND INSTALLATION IN ACCORDANCE WITH NORMS AND
STANDARDS



AUTOMATION

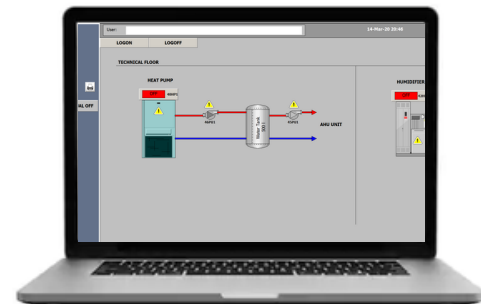


INDUSTRIAL PROCESSES



HVAC SYSTEMS

ALES offers complete automation solutions from design to installation when it comes to industrial systems. This involves planning, system design, PLC programming, visualization and development of SCADA user interface and complete system installation. The project is finalized with complete functional equipment testing, system commissioning, system validation and comprehensive personnel training. Competitive expertise and intense attention to detail during commissioning and validation are an indispensable part of our customer-orientated activity.



DESIGN AND INSTALLATION IN ACCORDANCE WITH NORMS AND STANDARDS

OUR PROJECTS



INDUSTRIAL
BUILDINGS



PHARMACY AND
HOSPITALS



PUBLIC, RESIDENTIAL AND
BUSINESS BUILDINGS



RECREATION
CENTERS

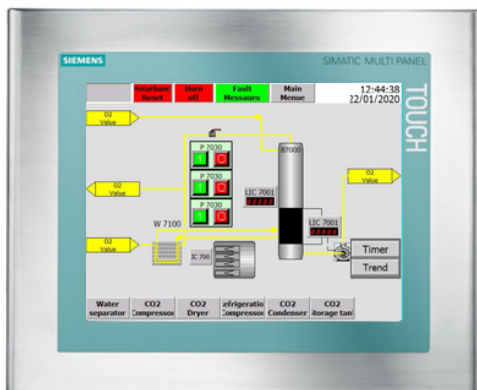
INDUSTRIAL FACILITIES

1.

Automation of CO2 manufacturing plant - **GEOGAS & FAM ENGINEERING**

- Design of safety control system for CO2 pumps
- PLC & SCADA software development

Location: Bitola, Republic of North Macedonia

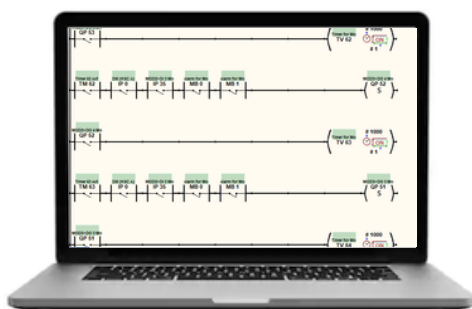


2.

Automation of glass recycling plant - **AKRON**

- System design
- PLC software development
- Development of control panel
- Electrical installations construction

Location: Skopje, Republic of North Macedonia



3.

Automation of dust collection system - Mining facility Demir Hisar AD Sloeshtitsa

- Design of 0.4kV low voltage line
- Control system design for an array of conveyor belts
- PLC software development
- Development of control panel
- Construction of electrical installations

Location: Demir Hisar, Republic of North Macedonia



4.

Automation of air handling unit(AHU) – **OZON & LUFTUNG ELITE**

- Design of temperature control system
 - Design of air volume control system
 - Design of detection system for clogged filters
 - Design of safety control system (emergency off state, frost thermostat, fire and smoke thermostat)
 - PLC & SCADA software development
 - Development of control panel
 - Construction of electrical installations
- Location: Switzerland



5.

Automation of AHU- **TEHNOKLIMA**

- Design of temperature control system
- Design of air volume control system
- Development of control panel
- Manufacturing of 12 kW electric duct heater

Location: Germany

6.

Automation of fire protection system - **OZON**

- Development of control panel

Location: Germany

7.

Automation of dust collecting system for electrostatic powder coating

- Design of detection system for clogged filters
- PLC & SCADA software development
- Development of control panel
- Construction of electrical installations

Location: Skopje, Republic of North Macedonia

8.

Low voltage electrical installations - **HI-TECH CORPORATION**

- Development of power distribution cabinets
- Construction of electrical installations

Location: Skopje, Republic of North Macedonia

9.

Low voltage electrical installations - **GAZELA**

- Development of power distribution cabinets
- Construction of electrical installations

Location: Skopje, Republic of North Macedonia

10.

Low voltage electrical installations, electric boilers and and electric duct heater - **FROTIRKA**

- Construction of electrical installations
- Manufacturing of 153 kW electric boiler
- Manufacturing of 72 kW electric duct heater

Location: Delchevo, Republic of North Macedonia

11.

Low voltage electrical installations - **SLOVENIJALES ENGINEERING**

- Development of power distribution cabinets
- Construction of electrical installations

Location: Skopje, Republic of North Macedonia

12.

Low voltage electrical installations - **AKVA DEJON**

- Design of electrical installations
- Development of power distribution cabinets
- Construction of electrical installations

Location: Skopje, Republic of North Macedonia

13.

Low voltage electrical installations - **PROPOINT**

- Design of electrical installations for manufacturing facility

Location: Skopje, Republic of North Macedonia

14.

Low voltage electrical installations - **BATO & DIVAJN**

- Design of electrical installations for manufacturing facility and administrative facility
- Development of power distribution cabinets
- Construction of electrical installations

Location: Skopje, Republic of North Macedonia

15.

Electric boilers - **KRATER**

- Manufacturing of 162 kW electric boiler for central heating
- Manufacturing of electric boilers (6-18 kW) for central heating of residential facility

Location: Skopje, Republic of North Macedonia

16.

Low voltage electrical installations - **SHARRCEM TITAN GROUP**

- Development of power distribution cabinets
- Construction of electrical installations

Location: Kosovo



PHARMACY & HOSPITALS

1.

Automation of HVAC system & AHU – **PHI UNIVERSITY CLINIC FOR NEUROLOGY**

- Design of temperature control system
- Design of air volume control system
- Design of detection system for clogged filters
- Design of safety control system (emergency off state, frost thermostat)
- Development of control panel
- Construction of electrical installations
- PLC & SCADA software development

Location: Skopje, Republic of North Macedonia

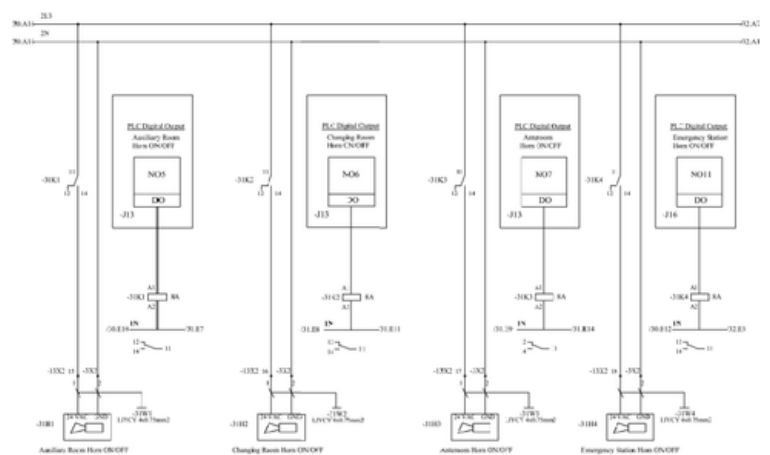
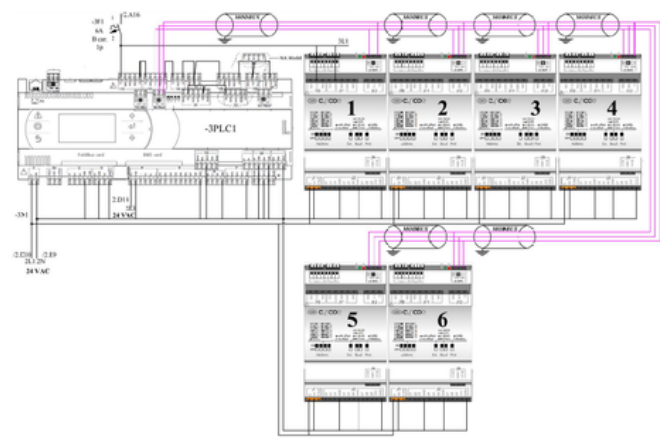
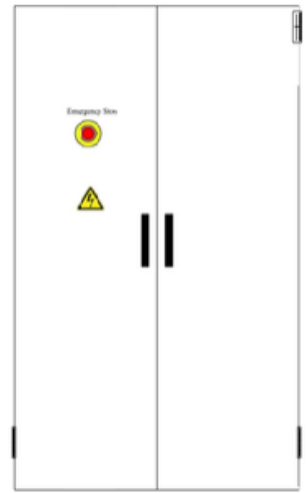
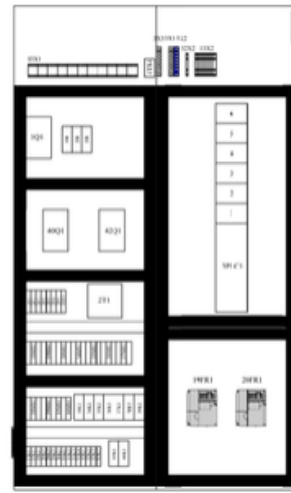
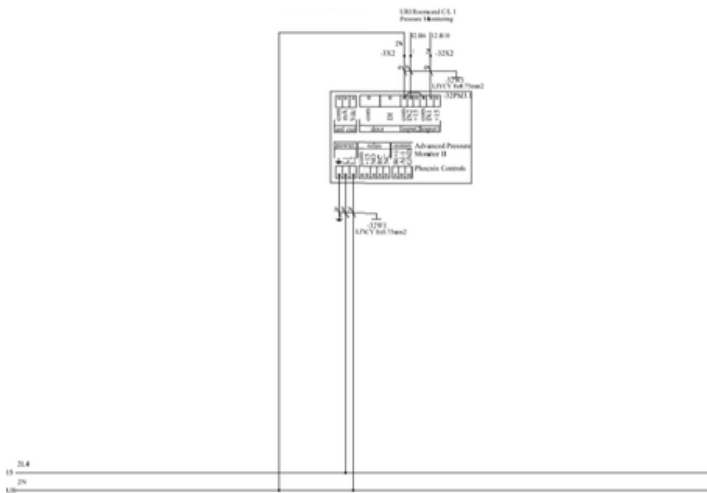


2.

Automation of HVAC system & AHU – **INSTITUTE OF PUBLIC HEALTH, Biosafety Level 3 Laboratory**

- Design of temperature control system
- Design of air volume control system
- Design of detection system for clogged filters
- Design of safety control system (emergency off state, frost thermostat, pressure out of limits, fire)
- Design of temperature and pressure control and monitoring system for laboratories
- Design of interlock system

Location: Skopje, Republic of North Macedonia



3.

Low voltage electrical installations - **BIONIKA PHARMACEUTICALS**

- Development of power distribution cabinets

Location: Skopje, Republic of North Macedonia



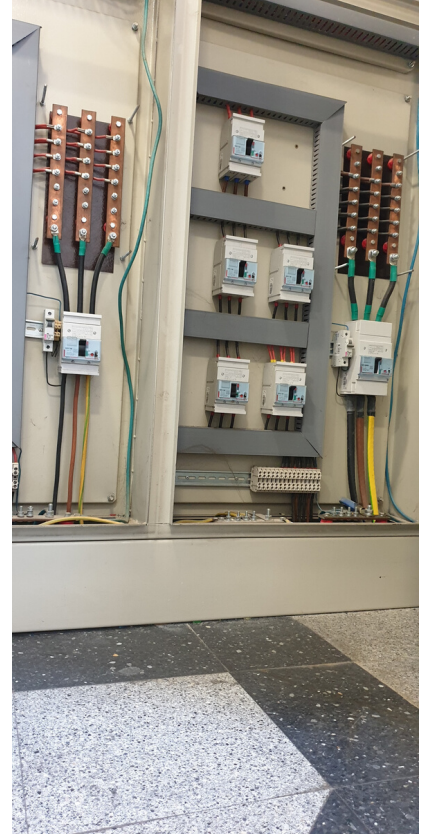
MANUFACTURING, ENGINEERING & AUTOMATION

4.

Low voltage electrical installations - **VARUS**

- Development of power distribution cabinets
- Construction of electrical installations

Location: Skopje, Republic of North Macedonia



5.

Electric boilers - **PHI UNIVERSITY CLINIC FOR PEDIATRIC DISEASE**

- Manufacturing of 42 kW electric boiler for central heating

Location: Skopje, Republic of North Macedonia



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PUBLIC, RESIDENTIAL & BUSINESS FACILITIES

1.

Automation of HVAC system & AHU – **BUSINESS FACILITY FOR THE PURPOSE OF SKOPJE CITY - CITY HOUSE**

- Design of temperature control system
- Design of air volume control system
- Design of detection system for clogged filters
- Design of safety control system (emergency off state, frost thermostat)
- Development of control panel
- Construction of electrical installations
- PLC & SCADA software development

Location: Skopje, Republic of North Macedonia



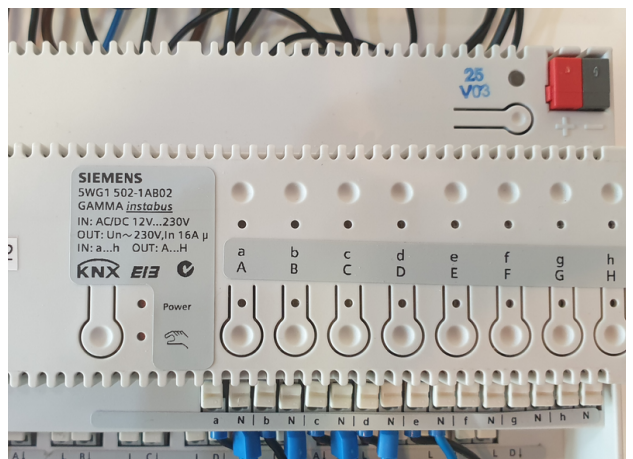
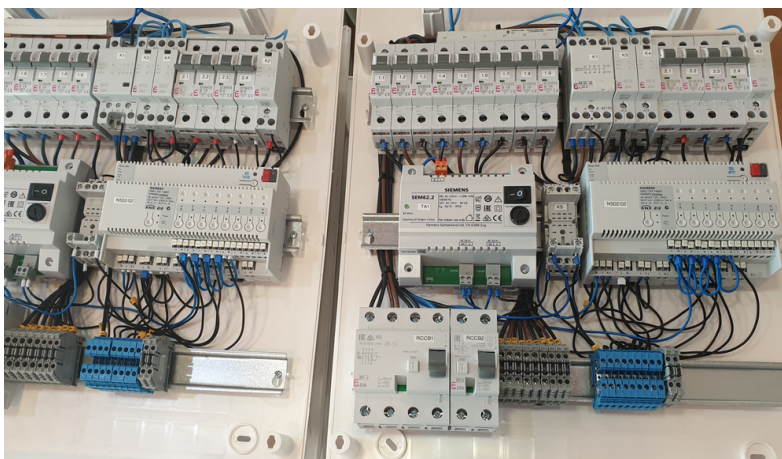
MANUFACTURING, ENGINEERING & AUTOMATION

2.

Low voltage electrical installations – **HOTEL ALEKSANDAR PALACE**

- Development of power distribution cabinets for 112 rooms
- Construction of electrical installations

Location: Skopje, Republic of North Macedonia



3.

Low voltage electrical installations - **AGENCY FOR REAL ESTATE CADASTRE**

- Development of power distribution cabinets

Location: Skopje, Republic of North Macedonia

4.

Low voltage electrical installations - **WASTEWATER TREATMENT PLANT, MUNICIPALITY RANKOVTS**

- Development of power distribution cabinets

Location: Rankovtse, Republic of North Macedonia

5.

Automation of log cutting machine - **FACULTY OF DESIGN AND TECHNOLOGY OF FURNITURE AND INTERIOR, UNIVERSITY SS. CYRIL AND METHODIUS**

- Development of control panel
- PLC & SCADA software development

Location: Skopje, Republic of North Macedonia

6.

Low voltage electrical installations - **FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGIES, UNIVERSITY SS. CYRIL AND METHODIUS**

- Construction of electrical installations

Location: Skopje, Republic of North Macedonia

7.

Low voltage electrical installations - **FACULTY OF CIVIL ENGINEERING, UNIVERSITY SS. CYRIL AND METHODIUS**

- Construction of electrical installations

Location: Skopje, Republic of North Macedonia

8.

Low voltage electrical installations - **FLOOR GARAGE „COURT'S HOUSE“**

- Development of power distribution cabinet for fire safety and hydrant installation

Location: Skopje, Republic of North Macedonia

9.

Low voltage electrical installations - **ROOFTOP RAGUSA 360**

- Construction of part of electrical installations

Location: Skopje, Republic of North Macedonia

10.

Electric boilers - **MALL SORAVIA**

- Manufacturing of 60 kW electric boiler for central heating

Location: Skopje, Republic of North Macedonia

11.

Electric boilers - **HIGHER EDUCATION INSTITUTION**

- Manufacturing of 120 kW electric boiler for central heating

Location: Ohrid, Republic of North Macedonia

12.

Electric boilers - **MACEDONIAN VIRTUAL VILLAGE**

- Manufacturing of electric boilers (6-24kW) for central heating

Location: Skopje, Republic of North Macedonia

13.

Electric boilers - **OHRIDSKA BANKA**

- Manufacturing of 100 kW electric boiler for central heating

Location: Skopje, Republic of North Macedonia

14.

Low voltage electrical installations - **RESIDENTIAL-BUSINESS FACILITY AERODROM, DABAR**

- Development of power distribution cabinets

Location: Skopje, Republic of North Macedonia

15.

Low voltage electrical installations - **RESIDENTIAL-BUSINESS FACILITY KARPOSH 4, DABAR**

- Development of power distribution cabinets

Location: Skopje, Republic of North Macedonia

16.

Low voltage electrical installations and electric boilers- **RESIDENTIAL FACILITY AND MANUFACTURING PLANT, BLAZHEVSKI**

- Development of power distribution cabinets
- Construction of electrical installations
- Manufacturing of electric boilers (6-18kW) for central heating

Location: Skopje, Republic of North Macedonia

17.

Electric boilers - **RESIDENTIAL BUILDING, street Mitropolit Teodosij Gologanov, TRIM & LUM**

- Manufacturing of electric boilers (6-18kW) for central heating

Location: Skopje, Republic of North Macedonia

18.

Electric boilers - **RESIDENTIAL BUILDING, STEMIT**

- Manufacturing of electric boilers (6-18kW) for central heating

Location: Skopje, Republic of North Macedonia

19.

Electric boilers - **RESIDENTIAL BUILDING, street Vojvoda Vasil Chakalarov**

- Manufacturing of electric boilers (6-18kW) for central heating

Location: Skopje, Republic of North Macedonia

20.

Low voltage electrical installations and electric boilers - **INSTITUT FRANÇAIS**

- Construction of electrical installations

Location: Skopje, Republic of North Macedonia

21.

Electric boilers - **LEORON PROFESSIONAL DEVELOPMENT INSTITUTE**

- Manufacturing of 108 kW electric boiler for central heating
- Manufacturing of electric boilers(24kW) for central heating

Location: Skopje, Republic of North Macedonia



RECREATION CENTERS

1.

Low voltage electrical installations and electric boilers - **OLYMPIC SWIMMING POOL „CENTAR“**

- Development of power distribution cabinets
- Construction of electrical installations
- Manufacturing of 120 kW electric boiler for central heating
- Manufacturing of electric boilers (6-18 kW) for central heating of business offices

Location: Skopje, Republic of North Macedonia



2.

Electric boilers - **SWIMMING POOL „KARPOSH“**

- Manufacturing of 36 kW electric boiler for central heating

Location: Skopje, Republic of North Macedonia



FROM IDEA TO SOLUTION



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