

# Melexis - electronic components factory, Sofia

## Building Management System

### Building Management System

- 1400 Physical Data Points
- 400 Integration Data Points
- 170 Areas – Total room automation (HVAC, lighting, shading)
- Control of 10 air handling units
- Control of cooling center with 2 chillers and 7 dry coolers
- Control of heating center with 2 boilers
- Control and monitoring of 19 precision air conditioners
- Control extract fans for technical rooms
- Control of outdoor lighting
- Monitoring of temperature, humidity and oxygen into production hall
- ModBus integration of compressed air plant
- Control and monitoring of nitrogen plant
- ModBus integration of chillers, dry coolers and boilers
- ModBus integration of diesel generator
- Monitoring of electrical LV systems
- Control and monitoring of water supply system (technical water)
- Power monitoring system for energy meters, UPSs, water meters and gas meters

## Project details

### Duration

2020 - 2022

### Scope of activities

- Delivery and installation of:
  - Field equipment
  - DDC controllers and modules
  - BMS operator station
- Start up and setup, user training and documentation
- Development of an algorithm for monitoring devices (water meters, electricity meters and gas meters)

