Building automation system:
GTalarm2
Produced by Topkodas, JSC

Security system;
Access control system;
Fire alarm system;
Alarm Monitoring;
Automation system.
Lighting control;
Electric power control;
Heating, ventilation control;
Air conditioning (HVAC) control;
Lifts, elevators control;
Plumbing control.
ABOUT UAB TOPKODAS, JSC:
Established in 2007 and headquartered in Kaunas, Lithuania, UAB Topkodas, JSC has developed an extensive, worldwide distribution network of factory trained and certified Partners throughout North America, Europe, the Middle East, Africa, Asia and Oceania.
UAB Topkodas, JSC began with access control, automation markets as our primary focus and continue to security in the area of residential and commercial needs.
UAB Topkodas, JSC provides building automation solutions for HVAC, lighting and access control, providing a technological showcase for energy efficient products.

APPLICATIONS:
- Security system;
- Access control system;
- Fire alarm system;
- Alarm Monitoring;
- Automation system.
- Lighting control;
- Electric power control;
- Heating, ventilation control;
- Air conditioning (HVAC) control;
- Lifts, elevators control;
- Plumbing control.

BENEFITS:
- Possibility of individual room control.
- Increased staff productivity.
- Effective monitoring and targeting of energy consumption.
- Improved plant reliability and life.
- Effective response to HVAC-related complaints.
- Save time and money during the maintenance.
- Higher rental value.
- More satisfied occupants.
- Remote monitoring of the plants.
- Ease of maintenance, information availability.
- Access control. Avoids the problem of lost keys.
- Enables restricted access, safeguarding equipment and stock.
- Restrict car park access to authorised personnel.

ADDITIONAL BENEFITS:
- Data is consolidated onto a single system to improve reporting, information management and decision-making.
- Integrating and managing the HVAC, energy, security from a single workstation allows facility-wide insight and control for better performance.
- Increased operational savings – Efficient resource deployment can result in reduced operational costs and decreasing false alarms.
- Energy efficient – optimize your energy management strategies and minimize operational costs.
- Flexibility to grow and expand – The powerful combination of open systems protocols can help support growth and expansion of the system in the future.
- Reduced risk – alarm management and integrated security solutions helps to helping to speed up response time and mitigate risks for the property, people and business.
- Incorporates energy targets into overall business strategies.

SPECIFICATIONS:
Digital inputs/outputs D1-D3:
- Programmable optional digital input or output;
- Max. Voltage 3.3V;
- Dallas 1-Wire bus, DS18B20, DS1990A;
- Assosion 1-Wire bus Humidity Sensor AM2302, DHT22, AM2305, AM2306, AM2310, AM2312;
- Wiegand interface DATAX, DATA Y, RFID reader, Keyboard;
- The total length of the bus from 10 to 100m.

IN1 – IN4 inputs:
- SMS text for input alarm and restore;
- Available to control until 12 sensors;
- Programmable enabling or disabling of inputs;
- Burglary alarm zones: Input type: NC/NO/EDL/ED + TAMPER 2.2K + 2.2K;
- 5.1K pull up resistor;
- Analog input 0-10V;
- Algorithm for zones operation: delay, interior, instant, 24 hours, silent, fire;
- Response time;
- Time of additional response;
- Communication of selected output;
- Control of analog sensors.

Inputs/outputs I/O1-I/O2:
- Programmable input or output;
- Burglary alarm zones: Input type: NC/NO/EDL/ED + TAMPER;
- Analog 0-10V/20mA/20mA;
- Control of analog sensors.

Outputs (PGM):
- OUT1...OUT4 max current – (-V) 1000 mA;
- All outputs can be controlled via short call DIAL or via SMS message. This feature may be used for gate opening.
- Output alarm parameters may be programmed;
- Programmable algorithms for outputs operation: CTRL/SMS/DIAL, SIREN, BU2ER, ARM state, Zones OK, Light, Flash, Inverting, pulse mode.

Power supply voltage:
- Nominal power supply voltage – 12.6 V;
- Power supply voltage range 8 – 15 V;
- Max. allowed ripple voltage 100mV;
- 3.3V power source output for external modules:
  - Voltage 3.3V;
  - Current limit 100mA.

BUS expansion modules or input/output:
- Voltage 8-15V;
- Current 20mA.

2-wire smoke detector inputs.

Module weight: 43g

Overall dimensions of the module: 84x66x18mm

FEATURES:

Communication
- SHF-SC09 protocol

Analog inputs (pullup 5.1K) -0/10V
- 4

Analog Input/Output, -5/10V, -9/20mA
- 3

Digital Inputs/Outputs 2.3V, 20mA
- 3

Wiegand interface, Dallas 1-Wire Bus
- 1

PGM outputs 24V/1000mA, Open Drain
- 4

Sensors: temperature, humidity
- 12

Digital expansion-module BUS
- 1

Firmware upgradeable
- via USB and SINA2 software

Events log buffer
- 2048 events

Users remote controls with mobile phone
- Fully unlimited

Users remote controls with iButton or RFID keycard
- Up to 800

To control with Wiegand keyboard
- Up to 800 user codes

 Built-in real-time clock backup battery

Control via SMS
- Unlimited

External microphone / speaker
- 1

Push button software reset
- 1