

# FIRE GROUP GEORGIA

"fire protection excellence, flexibility custom-made"

## FIRE DETECTION & ALARM SYSTEMS

INTELLIGENT & CONVENTIONAL — CATALOGUE

<b>INTELLIGENT ADDRESSABLE</b>  iRIS / SIMPO 4 Loop / 96 Zone	<b>CONVENTIONAL PANELS</b>  MAG Series 2-12 Zones	<b>DETECTORS &amp; DEVICES</b>  Heat / Smoke Combined	<b>AUDIO-VISUAL ALARM</b>  Sirens / Beacons Flashers
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EN54-2/4	EN54-5	EN54-7	EN54-3
EN54-11	EN54-17	EN54-18	LPCB

### SYSTEM RANGE

- iRIS 4-Loop Intelligent
- SIMPO 2-Loop Addressable
- MAG Conventional Panels
- SensoIRIS Addressable Detectors
- SensoMAG Conventional Detectors
- Linear Beam Detector

## INTELLIGENT ADDRESSABLE FIRE ALARM PANELS

Fire Group Georgia intelligent fire alarm systems use the **SensoIRIS / iRIS** platform — addressable panels supporting TTE and System Sensor protocols. Each device on the loop has a unique address, enabling precise identification of the exact detector or device in alarm. All panels are certified to **EN 54-2/4**.

### iRIS — INTELLIGENT ADDRESSABLE PANEL (1–4 LOOP)

- 4 loop capacity with 96 zone indicators on the panel
- Supports two communication protocols simultaneously: TTE and System Sensor
- 1–4 loop expanders connectable; up to 250 devices per loop (TTE) or 198 devices (SS)
- Touch-sensitive graphical display shows system status; separate LED indicators per zone
- Real-time clock built-in; day/night operating mode programmable
- Two-Level Alarm algorithm minimises false alarm events
- Network capability: up to 32 iRIS panels on Ethernet or RS485 redundant network
- Direct programming via ProsTE software
- Battery backup: 12V / 18Ah | Weight (without battery): 6 kg
- Dimensions — metal base: 441 x 331 x 80 mm | plastic cover: 461 x 344 x 45 mm
- Power supply: 230 VAC ±10%/15% | 50/60 Hz | Operating temp: -10 degC to +50 degC
- Electrical output: 7.5A | Certified: EN 54-2/4

### SIMPO — COMPACT ADDRESSABLE PANEL (1–2 LOOP)

- Ideal for small addressable systems — up to 500 devices
- 2 loop capacity, 16 zone indicators
- Up to 250 SensoIRIS devices per loop (TTE protocol)
- LCD display and LED indicators show system status
- Multi-language support | Metal panel enclosure
- Direct programming via ProsTE software
- Battery backup: 12V / 18Ah | Weight: 4.2 kg
- Dimensions: 308 x 415 x 78 mm
- Power supply: 90–264 VAC | 47–440 Hz | Operating temp: -10 degC to +50 degC
- Electrical output: 4.2A | Certified: EN 54-2/4

### iRIS Loop Expanders

<b>iRIS TTE Loop</b>	1 loop expander   TTE protocol   Supports SensoIRIS devices   Max 0.5A per device   Max 250 devices per loop
<b>iRIS SS Loop</b>	1 loop expander   System Sensor 200/500 & Advanced 200 protocol   Max 0.5A per device   Max 198 devices: 99 detectors + 99 modules/sirens/buttons

## CONVENTIONAL FIRE ALARM CONTROL PANELS — MAG SERIES

The MAG series conventional panels provide reliable zone-based fire detection for small to medium buildings. All panels are certified to **LPCB and EN 54-2/4** standards and include Turkish-language panel and user manual.

### MAG2M / MAG2P — 2-ZONE CONVENTIONAL PANEL

- 2 fixed zones | Up to 32 automatic detectors per zone
- 2 supervised siren outputs | 1 fire output | 1 fault output
- Auto-reset fuse | Zone function test capability
- Battery: 12V / 7Ah | Wall-mount metal enclosure
- Certified: LPCB, EN 54-2/4 | Turkish panel and manual included

### MAG4M / MAG4P — 4-ZONE CONVENTIONAL PANEL

- 4 fixed zones | Up to 32 automatic detectors per zone
- 2 supervised siren outputs | 1 fire output | 1 fault output
- Auto-reset fuse | Zone function test capability
- Battery: 12V / 7Ah | Wall-mount metal enclosure
- Certified: LPCB, EN 54-2/4 | Turkish panel and manual included

### MAG8M — 8-ZONE CONVENTIONAL PANEL

- 8 fixed zones | Up to 32 automatic detectors per zone
- 2 supervised siren outputs with programmable delay time
- 1 fire output | 1 fault output
- Repeater panel interface OR wireless module connection
- Auto-reset fuse | Zone function test capability
- Battery: 12V / 7Ah | Wall-mount plastic enclosure
- ML log module compatible | Certified: LPCB, EN 54-2/4

### MAG8Plus — 8-ZONE EXPANDABLE CONVENTIONAL PANEL

- 8 fixed zones expandable to 12 zones with ME4 module
- Up to 32 automatic detectors per zone
- 4 supervised siren outputs; expandable to 12 siren outputs with MS4 module
- 1 fire output | 1 fault output | Auto-reset fuse
- Repeater panel interface | Zone function test capability
- Battery: 12V / 18Ah | Wall-mount or flush-mount enclosure
- ML log module compatible | Certified: LPCB, EN 54-2/4

### MAG8 / MAG8Plus Optional Modules

<b>ML — Log Module</b>	Event log and message preview module for MAG8/MAG8Plus; 510-event memory; system reset input/relay output; 4-button keypad; backlit LCD; Turkish menu
<b>MR8 — Relay Module</b>	8 relay output module for MAG8Plus (1A/12V or 0.5A/24V)
<b>MS4 — Siren Module</b>	4 siren output expander module for MAG8Plus
<b>ME4 — Zone Module</b>	4 zone expander module for MAG8Plus

## SENSOIRIS ADDRESSABLE DETECTORS

SensolRIS addressable detectors operate on the TTE protocol and connect directly to the iRIS or SIMPO addressable loops. Each device has a unique address for pinpoint identification. IS versions include a built-in isolator module.

### SENSOIRIS T110 / T110IS — ADDRESSABLE HEAT DETECTOR

- Heat detector — class selectable from panel: A1R, A2R, BR, CR, A1S, A2S, BS, CS
- Power supply: 15–30 VDC
- Standby current: T110 < 180  $\mu$ A | T110IS < 2900  $\mu$ A
- Alarm current: 6.5 mA
- Coverage area: up to 35 m<sup>2</sup> | Mounting height: up to 3.5 m
- Protocol: TTE | Certified: EN 54-5
- T110IS includes built-in isolator module

### SENSOIRIS S130 / S130IS — ADDRESSABLE OPTICAL SMOKE DETECTOR

- Optical smoke detector — sensitivity selectable from panel: high/normal/medium/low
- Power supply: 15–30 VDC
- Standby current: S130 < 200  $\mu$ A | S130IS < 310  $\mu$ A
- Alarm current: 6.5 mA
- Coverage area: up to 120 m<sup>2</sup> | Mounting height: up to 16 m
- Protocol: TTE | Certified: EN 54-7
- S130IS includes built-in isolator module

### SENSOIRIS M140 / M140IS — ADDRESSABLE COMBINED DETECTOR

- Combined heat and optical smoke detector — class A1R
- Sensitivity selectable from panel: high/normal/medium/low
- Power supply: 15–30 VDC
- Standby current: M140 < 200  $\mu$ A | M140IS < 310  $\mu$ A
- Alarm current: 6.5 mA
- Coverage area: up to 120 m<sup>2</sup> | Mounting height: up to 16 m
- Protocol: TTE | Certified: EN 54-5/7
- M140IS includes built-in isolator module

### SensolRIS Audio-Visual Devices

**SENSOIRIS BSOU / BSST — ADDRESSABLE SOUNDER BASES**

- Built-in sounder with base — loop-powered
- Two sound levels selectable from panel: 92 dB / 100 dB
- 32 different tones selectable from panel
- Protocol: TTE | Optional built-in isolator
- BSOU: white colour | Certified: EN 54-3

## SENSOIRIS ADDRESSABLE MODULES

SensorIS modules extend the capabilities of the iRIS addressable system, enabling integration of conventional devices, zone interfaces, isolation and external control connections. All modules use TTE protocol.

### SENSOIRIS MIO — INPUT/OUTPUT MODULE

- Giriç/kıç (input/output) module for addressable loop
- Housed in small transparent-lid plastic enclosure for easy visual inspection
- Built-in isolator | TTE protocol
- Protection class: IP67 | Certified: EN 54-18

### SENSOIRIS MC-Z — CONVENTIONAL ZONE MODULE

- Interface between conventional detector zone and iRIS TTE loop
- Transparent-lid plastic enclosure for easy inspection
- Built-in isolator | TTE protocol
- Protection class: IP67 | Certified: EN 54-18

### SENSOIRIS MOUT — CONVENTIONAL SIREN MODULE

- Conventional siren output module for addressable loop
- Transparent-lid plastic enclosure
- Built-in isolator | TTE protocol
- Protection class: IP67 | Certified: EN 54-18

### SENSOIRIS MC-D — CONVENTIONAL DETECTOR BASE

- Addressable SensoMAG conventional detector base
- Loop-powered — no separate power supply needed
- TTE communication protocol
- Certified: EN 54-18

### SENSOIRIS MISO — ISOLATOR MODULE

- Short-circuit isolator module for wall mounting
- Small plastic enclosure — compact footprint
- TTE protocol | Protection class: IP40
- Certified: EN 54-17

### SENSOIRIS MINP — MINI MODULE

- Mini module with external control device connection input
- TTE communication protocol
- Certified: EN 54-18

## SENSOMAG CONVENTIONAL FIRE DETECTORS

SensoMAG conventional detectors use digital algorithms for reliable detection with minimal false alarms. All feature a 360 degree LED indicator, low-profile design and ultra-low standby power consumption ( $\leq 50 \mu\text{A}$ ). Power supply: 9–30 V DC. Certified: LPCB and relevant EN 54 parts.

### SENSOMAG F10 — FIXED HEAT DETECTOR (60 degC)

- Activates when temperature reaches 60 degC
- Digital algorithm for reliable detection
- 360 degree LED indicator | Low-profile design
- Coverage area: up to 35 m<sup>2</sup> | Standby current:  $\leq 50 \mu\text{A}$
- Power supply: 9–30 V DC
- Certified: LPCB, EN 54-5 | Class: A2/S

### SENSOMAG F10B — FIXED HEAT DETECTOR (75 degC)

- Activates when temperature reaches 75 degC — high-temperature environments
- Digital algorithm | 360 degree LED | Low-profile design
- Coverage area: up to 35 m<sup>2</sup> | Standby current:  $\leq 50 \mu\text{A}$
- Power supply: 9–30 V DC
- Certified: LPCB, EN 54-5 | Class: B/S

### SENSOMAG R20 — DIFFERENTIAL RATE-OF-RISE HEAT DETECTOR

- Activates when temperature reaches 58 degC or on rapid rate-of-rise
- Digital algorithm | 360 degree LED | Low-profile design
- Coverage area: up to 35 m<sup>2</sup> | Standby current:  $\leq 50 \mu\text{A}$
- Power supply: 9–30 V DC
- Certified: LPCB, EN 54-5 | Class: A1/R

### SENSOMAG S30 — OPTICAL SMOKE DETECTOR

- Digital algorithm optical smoke detection
- Automatic temperature compensation reduces false alarm rate
- 360 degree LED | Low-profile | Coverage: up to 120 m<sup>2</sup>
- Mounting height: up to 16 m | Standby current:  $\leq 50 \mu\text{A}$
- Optional rubber seal to protect smoke chamber from dust
- Power supply: 9–30 V DC | Certified: LPCB, EN 54-7

**SENSOMAG M40 — COMBINED HEAT AND SMOKE DETECTOR**

- Combined maximum-differential heat + optical smoke detection
- Digital algorithm | Class A1/R
- 360 degree LED | Coverage: up to 120 m<sup>2</sup> | Mounting height: up to 16 m
- Automatic temperature compensation for low false alarm rate
- Standby current: ≤50 μA | Power supply: 9–30 V DC
- Optional rubber seal for dust/dirt protection of smoke chamber
- Certified: LPCB, EN 54-5/7

**KORUMA CONTASI — PROTECTIVE DUST SEAL**

- Rubber protective gasket designed for Sensomag S30 and M40
- Protects smoke chamber from dust and dirt ingress
- Easy push-fit installation | No tools required
- Recommended for dusty environments: warehouses, construction sites, kitchens

## SENSOMAG BASES, BEAM DETECTOR, MANUAL CALL POINTS & SIRENS

### SensoMAG Detector Bases

<b>SENSOMAG B24</b>	Standard base   24V   For panels with up to 15 mA alarm current
<b>SENSOMAG B24D</b>	Standard base with Schottky diode   Detector-removed detection   24V   Up to 15 mA alarm current
<b>SENSOMAG B24RD</b>	Increased alarm current + Schottky diode standard base   Detector-removed detection   24V   Up to 45 mA alarm current
<b>SENSOMAG B12</b>	Relay output base   12V   Designed for alarm system integration

### FIRERAY 50R — LINEAR BEAM SMOKE DETECTOR

- 50 m detection range — ideal for large open spaces
- Reflector-based: transmitter and reflector only, no separate receiver required
- Loop-powered from circuit line
- Suitable for: warehouses, atriums, aircraft hangars, sports halls
- Low maintenance — single-point alignment and testing

### SENSOMAG MCP150 — ADDRESSABLE MANUAL CALL POINT

- Wall-mount addressable manual call point
- Flexible (non-breakable) automatic operating element
- LED fire alarm indicator on front face
- Special tool required for test and reset after alarm signal
- Built-in isolator | TTE protocol | Protection class: IP40
- Certified: EN 54-11

### Fire Alarm Sounders & Indicators

#### SF105 — FIRE ALARM SOUNDER WITH PIEZO FLASHER

- Built-in piezo sounder with red LED flasher
- Plastic enclosure | Power supply: 24V
- Power consumption: 80 mA
- Sound pressure: 105 dB at 1 m
- Suitable for conventional and addressable systems

### SENSOMAG FRL-1 — REMOTE LED INDICATOR

- Single input remote indicator for conventional detectors
- Repeats light signal from 1 to 3 active SensoMAG detectors
- Used where detector is concealed (ceiling void, above tile, in duct)
- Power supply: 24V | Low power consumption
- Compatible with limited-energy detectors

## SYSTEM SELECTION GUIDE

The table below helps select the correct system type based on building size, required zone coverage and desired features.

	iRIS (4-Loop)	SIMPO (2-Loop)	MAG8Plus	MAG8M	MAG2M/4M
<b>Max Devices</b>	1000	500	12 zones	8 zones	2–4 zones
<b>Addressable</b>	Yes	Yes	No	No	No
<b>Protocols</b>	TTE + SS	TTE	—	—	—
<b>Display</b>	Touch graphic	LCD	LED zones	LED zones	LED zones
<b>Network</b>	Up to 32 panels	—	—	—	—
<b>Expansion</b>	4 loops	2 loops	ME4/MS4	Repeater	—
<b>Battery</b>	12V/18Ah	12V/18Ah	12V/18Ah	12V/7Ah	12V/7Ah
<b>Best for</b>	Large/complex buildings	Medium buildings	Medium office/retail	Small-medium	Small buildings

## STANDARDS & CERTIFICATIONS

<b>EN 54-2/4</b>	Fire detection and fire alarm systems — Control and indicating equipment / Power supply equipment
<b>EN 54-3</b>	Fire alarm devices — Sounders
<b>EN 54-5</b>	Heat detectors — Point detectors
<b>EN 54-7</b>	Smoke detectors — Point detectors using scattered light, transmitted light or ionization
<b>EN 54-11</b>	Manual call points
<b>EN 54-17</b>	Short-circuit isolators
<b>EN 54-18</b>	Input/output devices
<b>LPCB</b>	Loss Prevention Certification Board — UK fire certification body

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## TYPICAL APPLICATIONS

Fire Group Georgia fire detection and alarm systems are designed and installed across a wide range of commercial, industrial and residential environments:

### Commercial Buildings

- Office buildings and business parks
- Retail stores, shopping centres and supermarkets
- Hotels, resorts and serviced apartments
- Restaurants, cafes and entertainment venues
- Banks and financial institutions

### Healthcare & Education

- Hospitals and medical centres
- Clinics, pharmacies and laboratories
- Schools, colleges and universities
- Libraries and archive facilities
- Research and science buildings

### Residential

- Apartment blocks and housing developments
- Student accommodation
- Care homes and assisted living facilities
- Luxury residential developments
- Mixed-use buildings

### Industrial & Manufacturing

- Factories and production facilities
- Warehouses and logistics centres
- Food processing and cold storage plants
- Chemical and pharmaceutical plants
- Power generation and utility buildings

### Public & Institutional

- Government buildings and embassies
- Courts, police stations and civic centres
- Museums, galleries and cultural venues
- Places of worship
- Sports complexes and arenas

### Transport & Infrastructure

- Airports and railway stations
- Car parks and underground garages
- Tunnels and transit infrastructure
- Port and harbour buildings
- Data centres and telecom facilities

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## CONTACT & COMPANY INFORMATION

# FIRE GROUP GEORGIA

Fire Detection | Suppression Systems | Fire Doors | Firefighting Equipment

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*Fire Group Georgia reserves the right to make technical changes without prior notice. All fire detection systems must be designed and installed by a qualified fire engineer in accordance with local building codes and EN 54 standards. Full documentation, commissioning and maintenance service available.*

EDITION 1 - 2024 | FIRE GROUP GEORGIA | FIRE DETECTION & ALARM SYSTEMS