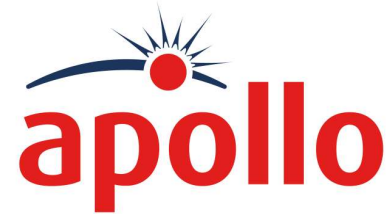




**CERTIFIED SOLUTIONS AND COMPLETE SERVICES
FOR FIRE AND GAS DETECTION SYSTEMS**



ABOUT US

We are a Romanian company specializing in fire safety systems and electrical automation systems. Together with our partners we have executed important projects and have gained valuable experience on the Romanian and international market. During the course of our business we have been able to build solid partnerships with our clients and suppliers worldwide.

The high degree of involvement and liability we invest in our activity make us stand out as a reliable partner for project development, regardless of the complexity.

MISION, VISION, VALUES

Innovation, simplicity, safety.

We aim to gain our customer's confidence by providing the highest quality solutions at optimum cost.

Competence. Our company and our people have the certifications, experience and determination to deliver the highest quality solutions and services.

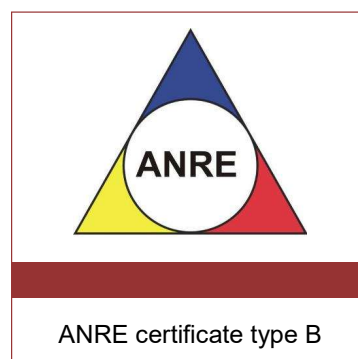
Efficiency. Throughout planning and project management, we will select the best options to optimize costs without damaging quality.

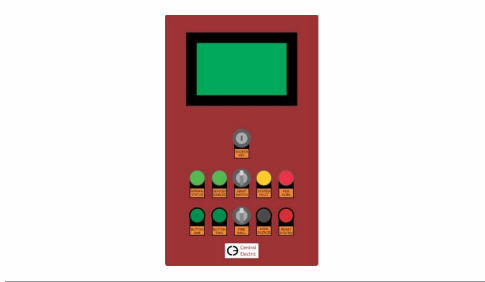
Readiness. Our experience, the practical sense and simplicity which we use in our approach, will considerably optimize execution time.

Involvement. We are passionate about our work. We are always looking to improve our ways and trying to come up with something new every time.

Tenacity. We always carry out all our commitments, even when confronted with unforeseen situations.

CERTIFICATION AND APPROVALS





CENTRAL ELECTRIC F&G PANEL

Modern fire protection systems offer a wide range of sophisticated functions. Whether the functions can be controlled effectively and all operational information is easily accessible even in emergency situations is a decisive factor. Our portfolio includes fire panels for applications of all sizes.



INIM FIRE AND GAS

The earlier a fire risk is detected, the better the appropriate measures can be taken to guide people out of harm's way and limit damages. This is why our fire and gas systems rely on innovative multi-sensor technology to identify dangerous situations as quickly and reliably as possible.



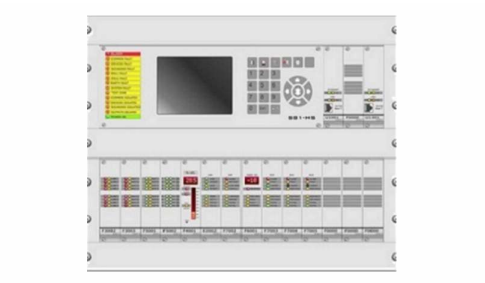
SCHRACK FIRE PANEL

Safety is a valuable asset. At Schrack Seconet, we have made it our duty to develop systems and solutions for people to increase their safety, thereby making the world a safer place. Our products represent the highest level of technology, are easy to operate and help build confidence.



SHRACK - AB

The expression Fire & Gas is related to the technological field dealing with fire protection and gas detection in industrial establishments intended for the production and transformation of energy, the production of chemical substances and the oil&gas sector.



HONEYWELL INDUSTRIAL FIRE

Fire & Gas is commonly related to technological field dealing with fire protection and gas detection. To confront these scenarios, SCAME Sistemi have manufactured the S81 HS control panel, which enables the achievement of the functional safety programmable systems.



POINT GAS DETECTORS

The Dräger PIR 3000 is an explosion proof infrared gas detector for continuous monitoring of combustible gases and vapors. Based on a stainless steel SS 316 enclosure as well as on a good measuring performance, this transmitter offers an excellent price-performance-ratio



INTELLIGENT DETECTORS

The Dräger PIR 7000 is an explosion-proof point gas detection transmitter that uses infrared (IR) technology to continuously monitor hydrocarbon gases in %LEL or ppm. This detector is built for the harshest industrial environments, including offshore installations.



IR FLAMABLE GAS DETECTOR

The Dräger Pulsar 7000 Series are stationary open path gas detectors. They detect explosive hydrocarbons in gases. The robust design and the extremely rapid response of the sensor make the Dräger Pulsar 7000 Series a dependable solution for your requirements.



OPEN PATH GAS DETECTOR

The Rosemount 935 Open Path Combustible Gas Detector provides continuous monitoring for hydrocarbon gases, even in harsh environments where dust, fog, rain, snow or vibration can cause a high amounts of obscuration.



PORTABLE GAS DETECTORS

The new generation of multi-gas detectors are ideal for personal protection, area monitoring, confined space entry (CSE) and safety measurements of shafts, channels or tanks. They deliver reliable measurements with extremely low operating costs.



BREAKGLASS EXI

Power: potential free contact
 Sensor: manual breakglass
 Protection: IP 66
 Approvals: SIL 2, ATEX Exi
 Interfaces: NC/NO contact
 Warranty: 2 years



BREAKGLASS EXD

Power: potential free contact
 Sensor: manual breakglass
 Protection: IP 66
 Approvals: SIL 2, ATEX Exd
 Interfaces: NC/NO contact
 Warranty: 2 years



PUSHBUTTON EXD

Power: potential free contact
 Sensor: manual switch
 Protection: IP 66
 Approvals: SIL 2, ATEX Exd
 Interfaces: NC/NO contact
 Warranty: 2 years



PULLSTATION EXD

Power: potential free contact
 Sensor: manual push-pull
 Protection: IP 66
 Approvals: SIL 2, ATEX Exd
 Interfaces: NC/NO contact
 Warranty: 2 years



DUAL ACTION EXD

Power: potential free contact
 Sensor: manual two-way
 Protection: IP 66
 Approvals: SIL 2, ATEX Exd
 Interfaces: NC/NO contact
 Warranty: 2 years

PANELS

FLAME

GAS

MAC

ALARM

ACCESSORIES

SERVICES



ATEX APPROVED

The E2S hazardous location audible signaling range features SIL1 and SIL2 compliant alarm horn sounders available in marine grade aluminium, GRP or 316 stainless steel enclosures. Approved to UL, IECEx and ATEX standards. Browse the category to find more information.



SIL 2 CERTIFIED

The minialarm sounders are certified intrinsically safe sounders which produce loud warning signal in hazardous area. Forty-nine first stage alarm sounds can be selected by internal switches and each one can be externally changed to a second or third stage alarm sound.



OUTDOOR DEVICES

The Discovery Open-Area Sounder Visual Indicator makes full use of the Discovery protocol and has been designed for use in indoor and open areas. When the fire system is being commissioned a 'Magnetic Wand' can be used to adjust and test each sounder locally.



INDOOR DEVICES

To effectively guide people to safety in case of an emergency, fire alarm devices in public and commercial buildings must be carefully matched. Lay the foundation for reliable alarming and evacuation of buildings with our extensive portfolio of addressable sounders and beacons.



ALARM INDICATORS

The alarm indicator is connected in parallel to automatic fire detectors in order to indicate quickly the source of an alarm signal from detectors that are not easily accessible or visible. The alarm indicator lights up as soon as a connected fire detector gives an alarm.

PANELS

FLAME

GAS

MAC

ALARM

ACCESORIES

SERVICES



JUNCTION BOXES Ex

Dimensions:	200x200 to 600x400mm
Equipped:	Cable Glands, terminals
Protection:	IP 54 to IP68
Aprovals:	ATEX Exe
Cable inputs:	up to 25
Waranty:	2 years



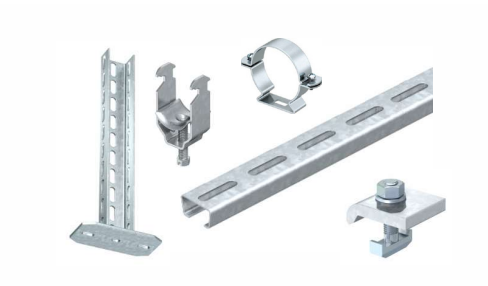
SPECIAL CABLES

Type:	Fire and Gas cables
Color:	Red, black
Wires:	Pairs, Triples, on request
Cable Armor:	SWA, non-armored
Aprovals:	IEC 60332, E30/90
Waranty:	2 years



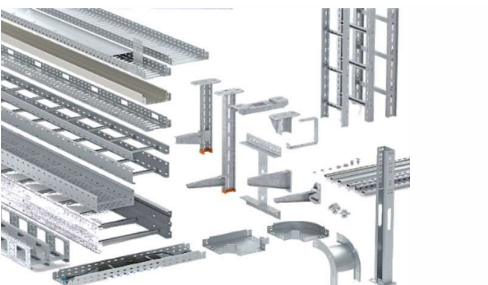
CABLE GLANDS

Type:	Fire and Gas cable glands
Material:	Brass, nikel plated brass
Size:	M16 to M63
Cable Armor:	SWA or non-armored
Aprovals:	ATEX Exd
Waranty:	2 years



SUPPORT STRUCTURES

Type:	Metalic
Material:	Hot-Dip Galvanized St
Role:	Field devices, Jb's, etc.
Aprovals:	IEC 17050-1
Waranty:	2 years



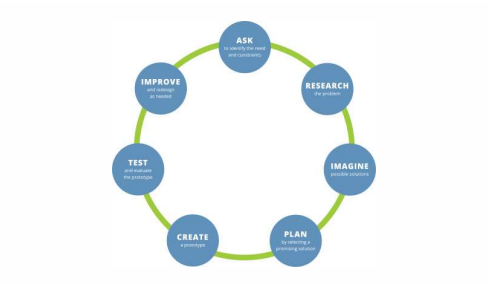
CABLE TRAY SYSTEMS

Type:	Metalic
Material:	Hot-Dip Galvanized St
Role:	Field devices, Jb's, etc.
Aprovals:	IEC 17050-1
Waranty:	2 years



RISK ASSESSMENT

Site analysis
 Fire Zones Establishment
 Required F&G Detection
 Fire and Gas Mapping
 Cause and Effect



ENGINEERING

Functional Design Specification	FDS
Field Devices Type and Layout	DWG
Fire and Gas Block Diagram	BLD
Cable Routes and Cable Tray Layout	CTL
Bill of Quantities	BOQ
Cable List	CBL



INSTALLATION

Site assessment according to documentation
 Cable tray construction
 Cable Pulling
 Field Devices Deployment
 Fire and Gas Panel Installation
 System Wiring



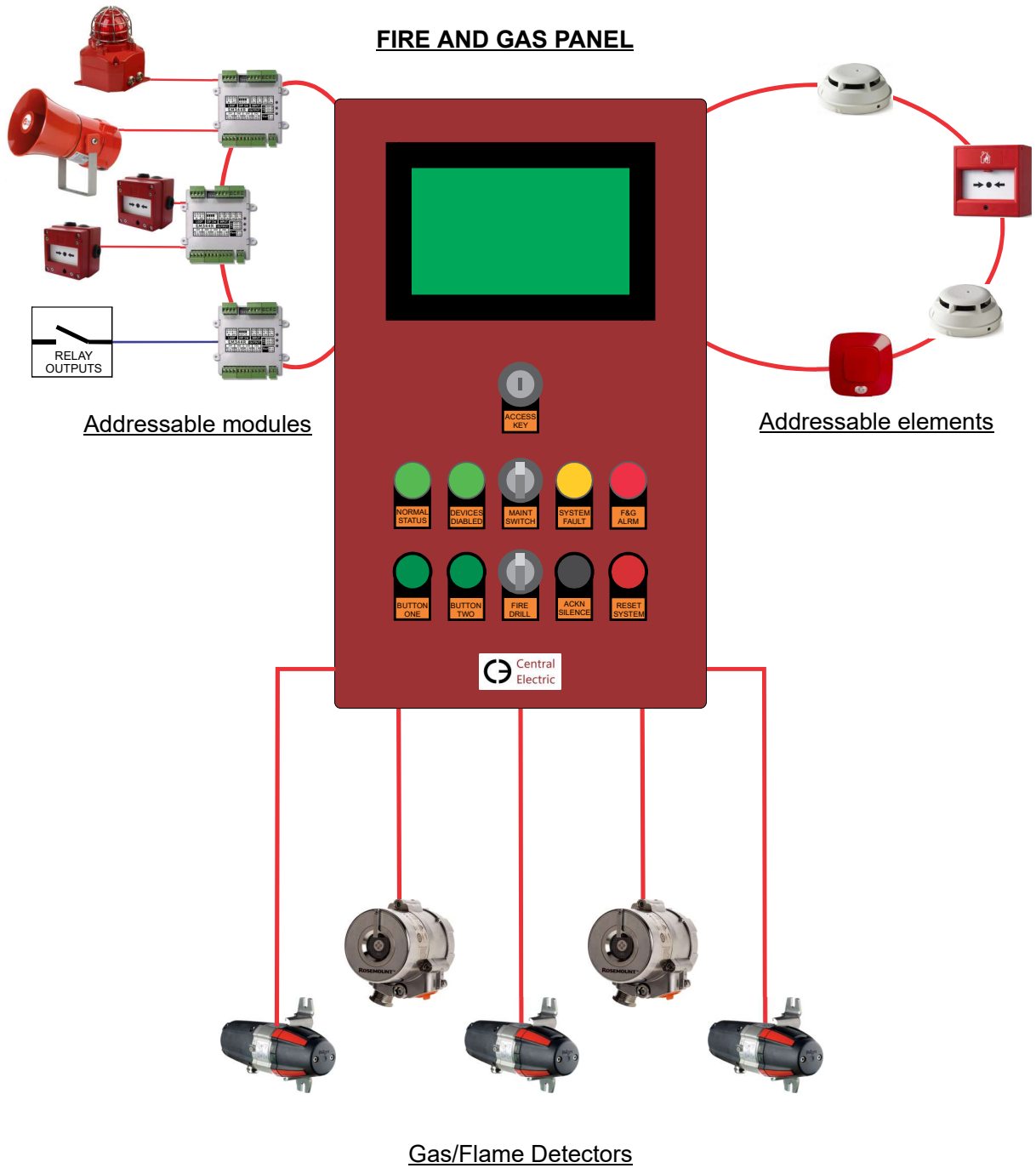
COMMISSIONING

Cable Test (continuity and insulation)
 Wire Connection and Checks
 Loop Checks
 Control Panel Programming
 Startup and Troubleshooting
 Site Acceptance Test (with end-customer) SAT

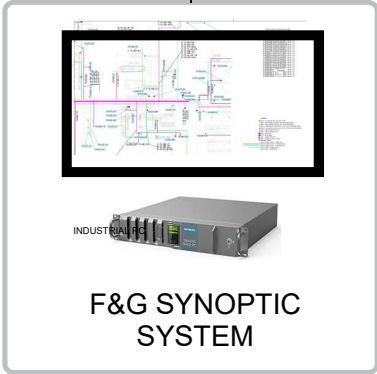
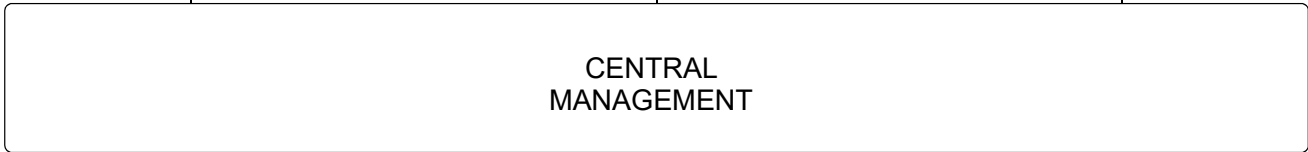
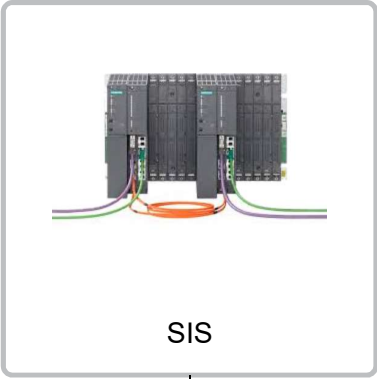
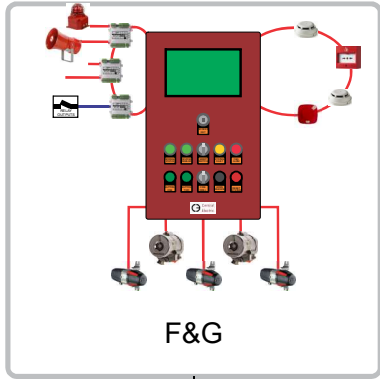


MAINTENANCE

Preventive Maintenance
 Predictive Maintenance
 Corrective Maintenance
 Scheduled Routine Maintenance
 Emergency On Call Maintenance



3RD PARTY INTEGRATION



PARTNERS



OMV Petrom SA is a Romanian oil company, the largest corporation in Romania and the biggest gas and oil producer in Eastern Europe



ABM is a specialized group of companies in the field of industrial security and electrical works, with over 25 years of experience.



Armax Gaz is the national leader in the production of equipment and machinery for the gas and oil industry.



Dräger is an international leader in the fields of medical technology and protection. Since 1889, Dräger products have been protecting, supporting, and saving lives..



Emerson is a global force in technology, software, and engineering that drives innovation to make the world healthier, safer, smarter, and more sustainable.



Since 1993, our objective has remained the same: to develop partnerships with security firms at the national level.



Phoenix Contact has been present in Romania since 2005 as a wholly-owned subsidiary of the global technology manufacturer with the same name.



Christof E&P Services is the largest provider of services for complex piping systems in Southeast Europe.

REFERENCES

AUTOMATION

Customer automation and security systems
Armax Gaz SA beneficiary SNTGN

Concept, design, execution and PIF,
mercaptan odorization systems control
panels, client Armax Gaz SA

Design, Execution, PIF electrical part SRM
Dej, 3000 smc, user client SNTGN Transgaz
SA

Design, Execution, PIF electrical part SRM
Cordun, 4000 smc, user factory Soceram
Cordun

Design, Execution, PIF electrical part of
SRM Carei, 2000 scm, Linderei farm user

Design, Execution, PIF electrical part SRM
Tismana, 3500 smc, user client SNTGN
Transgaz SA

Design, Execution, PIF electrical part SRM
Campia Turzii, 8000 smc, user client
SNTGN Transgaz SA

Design, Execution, PIF electrical part SRM
Techirghiol, 3500 smc, user client SNTGN
Transgaz SA

Design, Execution, PIF electrical part SRM
Maracineni, 4500 smc, end-user Primaria
Maracineni, judetul Buzau

Design, Execution, PIF electrical part SRM
Tilisca, 5000 smc, end-user Primaria Tilisca
judetul Sibiu

Design, Execution, PIF electrical part SRM
Visina, 2500 smc, user client SNTGN
Transgaz SA

F&G

Fire and gas detection system, TUCO-TEG
extension, contractor Armax Gaz SA client
OMV Petrom SA

Fire and gas detection system, Bradesti plant,
contractor Armax Gaz SA, client OMV
Petrom SA

Fire and gas detection system, CCTV,
Burcioaia and Madulari plant, contractor
Bilfinger EMS, customer OMV Petrom SA

Design, Installation, PIF system F&G CHD
Hurezani, Contractor ABM ST, Client OMV
Petrom SA

Design, Installation, PIF system F&G, SLGP
Madulari, Contractor Habau PPS, RO, Client
OMV Petrom SA

Fire and Gas systems maintenance, client
OMV Petrom SA (2-year contract)

Fire and Gas installation Midia
Development, client Black Sea Oil and Gas

Fire and Gas System Upgrade Tuco
Bulbuceni station, client OMV Petrom SA

Fire and Gas System Upgrade Panou
Hurezani station, client OMV Petrom SA

Fire and Gas Systems Maintenance for all
onshore gas treatment plants, client OMV
Petrom SA





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