Satel®
MADE TO PROTECT

ADDRESSABLE FIRE ALARM SYSTEM

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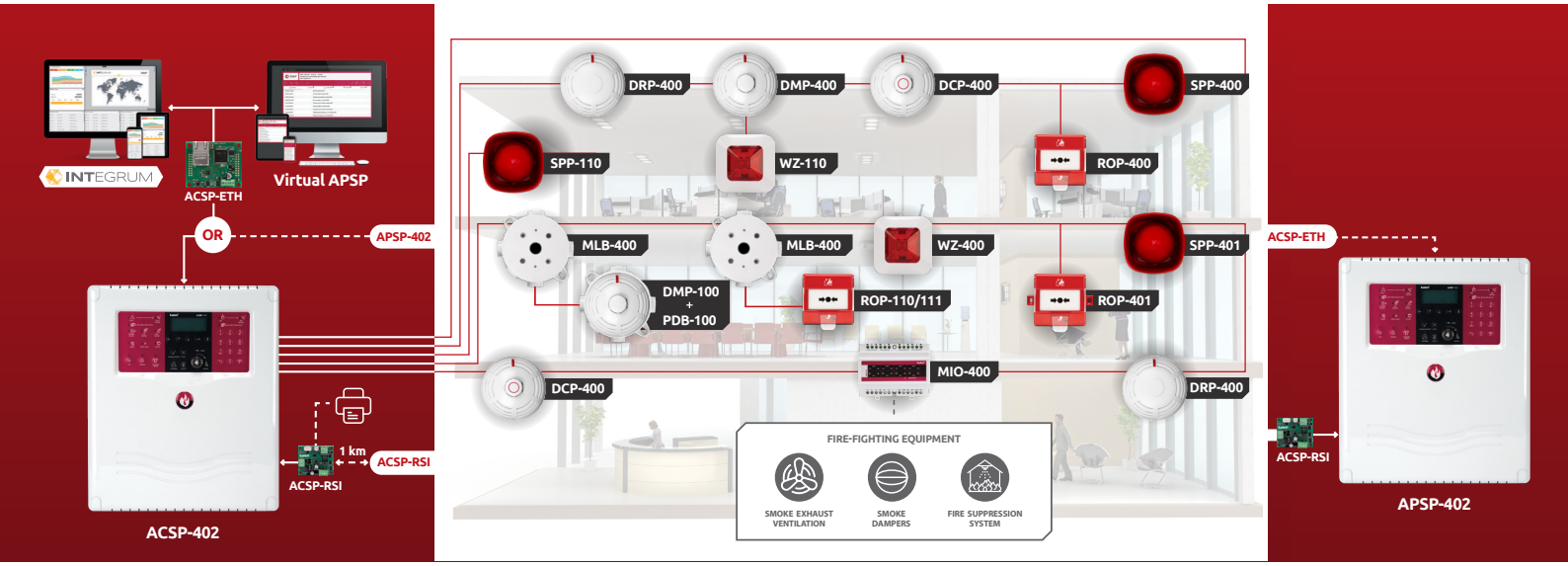
Precise detection of the fire location and immediate signalling of the incident

ACSP is designed to effectively detect a fire at its earliest stages, to signal this situation optically or acoustically, and to notify the relevant services. Pinpointing the location of a fire incident, combined with a rapid response to it - makes it possible to take immediate action against the fire, and successfully evacuate people from the endangered area.

The ACSP Addressable Fire Alarm System meets the stringent requirements of the EN 54 safety standard

The main unit of the system, or the device that controls all the system components, is the **ACSP-402** fire alarm control panel. This supports 2 digital loops with up to 128 devices each. The system may be deployed using 3 wiring topologies: full loop (closed lines), radial (open lines from the control panel terminals), or mixed (with radial "branches" running from loops). Irrespective of the wiring, all loop devices have their own unique addresses, which allows quick and precise detection of the location where a fire has occurred and raising the alarm.

A clear advantage of the ACSP system is that it can be remotely controlled. The repeater panel offers access to the control panel functionalities and can be located up to 1 km from the control panel.



Various facilities

The ACSP system ensures effective fire detection in such places as:

- hotels
- office buildings
- production plants
- public buildings
- shopping centres
- transport hubs

ACSP products are independently certified to the EN54 standard and hold Certificates of Constancy of Performance.

ACSP-402

Fire alarm control panel

- LCD display for easy day-to-day operation of the system
- support for the repeater panel and virtual panel (mobile app)
- 2 loops – support for up to 128 devices per loop
- up to 256 detection zones
- system component connection topologies: loop or radial
- 4 inputs with functionalities defined by the installer
- 8 relay outputs programmable by the installer (output no. 8 is fitted with a circuit continuity control feature and may be programmed as an output to fire protection devices)
- support for fire and fault signal transmission systems devices
- built-in buffer power supply supporting a single 12V battery
- 24V power supply outputs
- staff presence schedule – automatic switching of alarm modes and sensitivity of smoke detectors

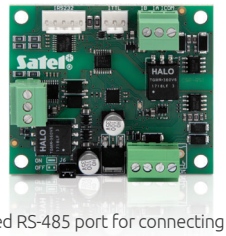
APSP-402

Repeater panel

- possibility to fully operate the fire alarm system from a remote location (up to 1 km)
- operation of the system in the same manner as from the ACSP-402 control panel
- built-in buffer power supply supporting a single 12V battery

ACSP-RSI

RS-485 bus galvanic isolator



- opto-isolated RS-485 port for connecting the ACSP-ETH module and APSP-402 repeater panel
- opto-isolated RS-232 port for a printer

ACSP-ETH

Ethernet communication module

- compatible with the ACSP-402 control panel
- compatible with the APSP-402 repeater panel
- compatible with INTEGRUM
- send emails with system status information and diagnostics
- powered directly from the control panel or repeater panel
- automatic IP address configuration over DHCP

DCP-400

Addressable fixed temperature / rate-of-rise heat detector

- thermal sensor with A1R characteristics according to EN 54-5
- easy installation of the detector in the DB-400 base
- support for the remote alarm indicator WZ-110
- built-in short-circuit isolator at the device input and output

DRP-400

Addressable optical smoke detector

- unique Swirl chamber to accelerate smoke detection
- possibility to set 4 sensitivity thresholds for smoke detection in the detection zone
- precise Hexamesh filter made of stainless steel
- signalling of contamination of the optical chamber
- easy installation of the detector in the DB-400 base
- support for the remote alarm indicator WZ-110
- built-in short-circuit isolator at the device input and output

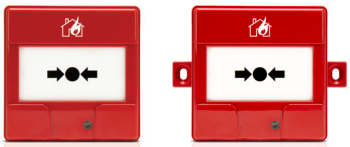
DMP-400

Addressable multisensor smoke and heat detector

- unique Swirl chamber to accelerate smoke detection
- thermal sensor with A1R characteristics according to EN 54-5
- possibility to set 4 sensitivity thresholds for smoke detection in the detection zone
- precise Hexamesh filter made of stainless steel
- signalling of contamination of the optical chamber
- easy installation of the detector in the DB-400 base
- support for the remote alarm indicator WZ-110
- built-in short-circuit isolator at the device input and output

ROP-400 / ROP-401

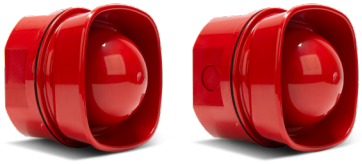
Addressable manual call point



- mechanical activation memory
- LED to signal activation or fault
- special key for resetting after activation
- built-in short-circuit isolator at the device input and output
- ROP-401 model intended for outdoor applications

SPP-400 / SPP-401

Addressable fire alarm sounder



- selection of 32 signal tones
- built-in short-circuit isolator at the device input and output
- SPP-401 model intended for outdoor applications

WZ-400

Addressable remote indicator

- optical LED signalling
- aesthetic appearance
- built-in short-circuit isolator at the device input and output

MLB-400

Conventional side line module

- offers the possibility to connect conventional devices (detectors, manual call points) to an addressable system
- built-in short-circuit isolator at the device input and output

The **MLB-400** conventional side line module offers the possibility of connecting conventional call points to the system. The solution makes it possible to use the existing infrastructure, thus reducing overall investment costs.

MIO-400

Conventional input / output module

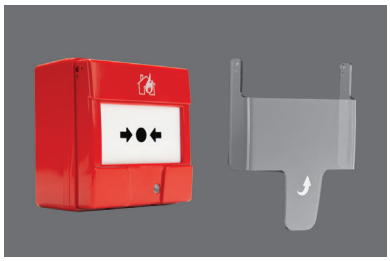
- 4 monitored control inputs
- 4 relay outputs with load capacity of 16A / 250V
- suitable for mounting on a 35 mm DIN rail
- preview of event memory
- built-in short-circuit isolator at the device input and output

The **MIO-400** conventional input / output module allows one to monitor and control fire protection devices and other equipment such as a lift controller, in line with procedures developed in case of fire. The module is fitted with 4 inputs and 4 relay outputs.

An important option is the possibility to give individual names to devices operating in the ACSP system. This facilitates the quick location of life threatening events.

ROP-FLAP

Protective cover for ROP-400/401 and ROP-110/111



- protects against accidental activation of the manual call point
- made of transparent, durable plastic

DB-400

Addressable detector base

- suitable for DCP-400, DRP-400 and DMP-400 detectors
- clear labelling for easy connection to the system
- compatible with 10x20 mm cable ducts

PDB-100

Industrial base for detector sockets

- dedicated for the installation of the DB-400 and DB-100 sockets
- facilitates installation of detector sockets in surface-mounted systems
- compatible with PG-16 cable glands and Ø16 tubes
- external mounting clips allowing installation without perforating the bottom of the base

Convenient and easy to set up

The configuration and settings of the ACSP system can be entered and changed with the control panel keys. The other more convenient and user-friendly method, is the **ACSP Soft** software. As part of the identification process, the control panel automatically detects the topology and all loop devices, and the structure is immediately mapped graphically in the software.
As a result of the automatic identification process, the system is ready for operation in its basic configuration.

The software improves the troubleshooting of possible installation problems related to cabling and makes it easier to pinpoint them. Also a loop component verification feature is available, which, if activated, searches for changes that have been introduced since the previous identification.

System status preview from any location

The **Virtual APSP** app offers remote access to the system status from anywhere in the world. The app is available in both desktop and mobile versions. Communication with the control panel is via the Internet, with encryption of transferred data. In this manner, it is possible not only to check maintenance-related issues but also to view current alarms and event history.

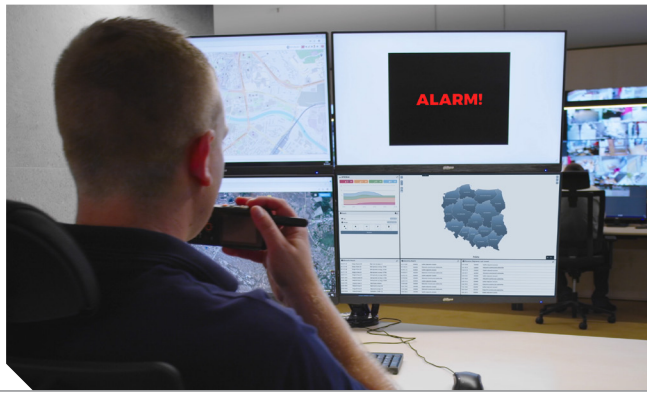
- visualisation of fire alarms from individual detection zones
- view of the current failure list
- display of current disablement and test conditions
- view of event memory
- option to generate reports on the smoke detector contamination level

Connecting an external printer enables real-time printing of event information

INTEGRUM

Effective administration of facilities

The status of ACSP systems, including their graphic visualisation and presentation on maps and plans, can be displayed using the **INTEGRUM** software, which allows the integration and management of distributed safety systems based on the **INTEGRA** and **INTEGRA Plus** control panels.



Quick and easy system development using the SSPX proposal manager

SSPX is a working tool designed for professionals involved in the development of fire alarm systems using both addressable and conventional SATEL devices. Owing to its intuitive interface and range of useful functionalities, preparing the hardware configuration and arrangement of system components on a facility plan is fast, efficient and extremely easy.

- development and editing of hardware configurations for fire alarm systems
- work based on facility plans or without a graphic plan
- system validation mode – checking for the compatibility and proper connection of devices
- graphic presentation of the system topology
- determination of cable route parameters: length, resistance, voltage drops
- current balance calculator

ACSP

Why choose ACSP?

1. Precise detection of a fire location with addressable devices
2. Solutions to reduce system costs – such as a single back-up battery
3. Effective features to speed up maintenance, including a single-person test
4. Advanced diagnostics for faster identification of possible irregularities in the operation of the whole system and individual devices.
5. Easy and convenient programming process
6. Clear system status view in mobile and desktop applications
7. Integration with INTEGRUM for the visualisation of the current system status
8. Remote operation option with the repeater panel
9. The control module and MIO-400 module feature special inputs/outputs for monitoring and controlling third-party equipment such as a smoke exhaust system or lift controller.
10. Possibility to integrate existing parts of the conventional system into ACSP, using the MLB-400 side line module

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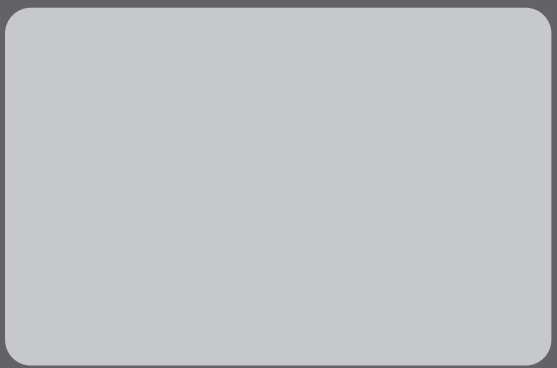

U-ACSP-EN0323

30 YEARS OF EXPERIENCE

Professional protection of each type of premises, as well as people staying therein, through advanced, yet functional and cost-effective solutions – these few words may serve as the shortest description of the mission of SATEL, a manufacturer of security systems with involvement of 100% Polish capital. Due to integrity in business and a special emphasis on high quality and a wide range of products offered, the SATEL brand has been highly appreciated in the industry for 30 years.

This philosophy of management and hard work of more than 350 SATEL's employees produce tangible results. The wide range of over 400 offered products provides countless opportunities to create security, home automation, fire alarm, access control and monitoring systems, tailored to the individual needs of each user. At the same time, these systems meet all requirements prescribed by Polish and international regulations and industry standards.

Bringing the functionality of devices into line with current requirements and expectations of the market with the use of the latest technologies is one of the main objectives of SATEL. For this reason the design and production departments of the Company are continuously being modernized and expanded. A natural consequence of all actions aimed at the production of top-quality devices was the introduction of the quality management system conforming to ISO 9001 in 2002. Regardless of this certification, SATEL also carries out a full functional test of all products leaving the production line, thus ensuring reliability of the manufactured devices. Focusing on modern design and attaching importance to the highest levels of quality and functionality of its products, SATEL has gained many satisfied customers not only in Poland but also in more than 50 markets worldwide.