ACSP-402

The **ACSP–402** fire alarm control panel is designed to:

- monitor operation of automatic and manual call points,
- control sirens,
- control devices used to transmit fire alarms and failure signals
- control the operation of fire protection devices or systems,
- monitor the operation of fire protection devices or systems,
- monitor the operation of other external devices,
- control other external devices

These features make it possible to detect a fire at its earlies stage and alert the users of the building with acoustic and/or optical signals as well as notify relevant services. This in turn allows one to quickly commence fire–fighting activities. The control panel can also automatically activate fire protection devices.

System structure

- support for up to 256 zones
- support for up to 32 groups
- possibility to create interlinks between zones, sub–zones and groups
- support for up to 256 call points (detectors / MCPs)
- support for addressable detection circuits of the following types:
  - loop (up to 2 circuits)
  - radial line (up to 4 circuits)
  - loop with a side line / side lines
- support for a printer
- extensive functions for testing the control panel and system

Inputs

- 4 programmable inputs on the control panel mainboard (NO, NC)
- monitoring of external devices status, e.g. for reporting fire alarms and failures

Outputs

- 2 control outputs for conventional sirens
- control output for fire alarm transmission devices
- control output for fault signal transmission devices
- 8 programmable relay outputs
  - control of external devices
  - output for controlling automatic fire protection equipment
- 24 V DC power supply output
- dedicated power supply output for **ACSP–ETH** and **ACSP–RSI** modules
- signal delay at outputs

RS–485 communication buses

- 2 bus ports for connecting
  - **APSP–402** repeater panel
  - **ACSP–ETH** module (for extending the control panel with an Ethernet port)

- ○ **ACSP–RSI** module (for opto–isolation of the bus and connection of a printer)

E–mail notification (requires connecting the ACSP–ETH module)

- 4 addresses for notification
- selection of event types for notification
- periodic diagnostic reports

Setting up

- setting up with keys on the front panel of the control panel
- free **ACSP Soft** programme for configuring the control panel (USB port)

Event memory

- non–volatile memory for up to 9999 fire alarms
- non–volatile memory for 8999 events (including fire alarms)

Control panel mainboard module

- LEDs for signalling the status of the control panel and external devices
- LCD display for:
    - ○ setting up the control panel
    - ○ presenting information about fire alarm
    - ○ presenting information about disablement, test or failure conditions
    - ○ viewing the list of current disablement, test or failure conditions
    - ○ viewing the history of alarms and other events
- USB port to connect a computer
- power supply connection
- battery connection
- built–in piezo transducer for acoustic signalling
- real–time clock with battery back–up power

Power supply

- switching mode power supply **APS–318** with short circuit protection
- automatic switching to back–up power supply (battery) in case of failure of the main power supply
- battery charging circuit with temperature–compensated charging voltage
- monitoring of the battery status and disconnection of a flat battery

The actual appearance of the products may differ from the presented images. Product descriptions are provided in the web service for information purposes only.

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Maximum number of addressable detection circuits (radial line)	4
Number of fault transmission circuits	1
Working voltage of the fault transmission	24 V DC±15%
Maximum current of the fault transmission circuit	180 mA
Terminating resistor on the fault transmission circuit	10 kΩ±5%
Number of programmable relay outputs	8
Stand-by supply: internal acid battery	12 V / 17 Ah
Stand-by supply: external acid battery	12 V / ≤33 Ah
Supply output AUX (only for connection of CSP-ETH module): with AC power supply failure	12 V DC +15%, -20%
Maximum battery charging current	1,4 A
Overcurrent protection of the power supply unit (time-delay fuse)	3,15 A
Current parameters of the integrated power supply (acc. to EN54-4) - Imax a	1,6 A
Current parameters of the integrated power supply (acc. to EN54-4) - Imax b	1,6 A
Battery charging system overcurrent protection (time-delay fuse)	3,5 A
Maximum number of addressable detection circuits (loop)	2
Terminating resistor on the alarm transmission circuit	10 kΩ±5%
Maximum resistance of the addressable detection circuit	100 (2 x 50) Ω
Maximum number of line elements in an addressable detection circuit	128
Maximum number of line elements in an addressable detection circuit of the radial line type	32
Maximum number of automatic call points in a conventional detection circuit	32
Maximum number of manual call points (ROPs) in a conventional detection circuit	10
Maximum current in a detection circuit	200 mA
Maximum resistance of the circuit for alarm and fault signalling devices	75 (2 x 37,5) Ω
Number of external circuits for signalling devices	2
Operating voltage of conventional alarm circuits (±15%)	24 VDC
Maximum current of the circuits for conventional signalling devices	180 mA
Terminating resistor on the conventional signalling devices circuit	10 kΩ±5%
Load capacity of the +24 V supply output	200 mA
Weight without the battery	2721 g
Delay time of alarm transmission to the outside	0...10 min
Supply voltage (±15%)	230 V AC, 50-60 Hz
Maximum humidity	93±3%
Dimensions	324 x 382 x 108 mm
Maximum current consumption from the 230V network	300 mA
Transit temperature range	-25...+55°C
Operating duration of the stand-by supply	72 h
Maximum internal apparent resistance of the battery (with cables and terminals in a circuit)	1,1±10% Ω
Current draw from the battery when detecting	220 mA
Current draw from the battery when emitting an alarm	320 mA
Current draw from an integrated AC power adapter when detecting	200 mA
Current draw from an integrated AC power adapter when emitting an alarm	300 mA
Sealing of the casing	IP30
Events storage capacity	8999
Alarm counter capacity	9999
Operating temperature range	-5...+40°C
Clock battery	3 V (CR2032)
Output for communication with PC (service output)	USB typ B
Terminating resistor on terminals for communication with the remote panel	100 Ω
Output for communication with remote panel and CSP-ETH module	transmisja szeregowa
Supply output +24V	24 V DC±15%
Supply output AUX (only for connecting CSP-ETH module): in standard mode	18 V DC +5%, -15%
Alarm resistor on the control input circuit	1 kΩ±5%
Terminating resistor on the control input circuit	10 kΩ±5%
Number of programmable control inputs	4
Electrical parameters of relay outputs	1A / 30 V DC (NO or NC)
Number of alarm transmission circuits	1
Working voltage of the alarm transmission circuit	24 V DC±15%
Maximum current of the alarm transmission circuit	180 mA