

ACSP-402

FIRE ALARM CONTROL PANEL

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:
 - o loop (up to 2 circuits)
 - o radial line (up to 4 circuits)
 - loop with a side line / side lines
- · support for a printer
- $\bullet\,$ extensive functions for testing the control panel and system

Inputs

- $\bullet\,$ 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
 - o control of external devices
 - $\circ\,$ 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
 - $\circ\,$ 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:
 - o setting up the control panel
 - o presenting information about fire alarm
 - o presenting information about disablement, test or failure conditions
 - o viewing the list of current disablement, test or failure conditions
 - o 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
- $\bullet\,$ battery charging circuit with temperature–compensated charging voltage
- monitoring of the battery status and disconnection of a flat battery





TECHNICAL DATA

| TEST INTO A E BY THE | |
|--|-----------------------|
| Operating temperature range | -5+40°C |
| 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 |
| Delay time of alarm transmission to the outside | 010 min |
| 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 | 100Ω |
| 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 |
| | 10 lΩ±5% |
| Terminating resistor on the alarm transmission circuit | 1 |
| Number of fault transmission circuits Working voltage of the fault transmission | 24 V DC±15% |
| Working voltage of the fault transmission | 180 mA |
| Maximum current of the fault transmission circuit | 10 kΩ±5% |
| Terminating resistor on the fault transmission circuit | 8 |
| Number of programmable relay outputs | 0 12 V / 17 Ah |
| Stand-by supply: internal acid battery | |
| 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 |
| Maximum number of addressable detection circuits (radial line) | 4 |
| 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 (2×37,5) 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 |
| | |