N-0200
FIRE PROTECTION SYSTEM CONTROL PANEL

Features:

The N-0200 is a control panel that controls fire protection system components such as fans, smoke vents, fire dampers and others. As an option, it can be linked to smoke detectors.

Intended Use

The N-0200 fire protection system control panel is intended to control the mechanical smoke exhaust system. It has a ventilation function and offers the possibility of connection to a weather station, as well as the ability to control the damper so that it serves as a roof hatch. It can also be used to control, receive and send signals to/from cooperating devices compatible with the N-0200 control panel.

The control panel can receive initiating signals from the fire alarm system and other fire safety systems. Triggering of the system is also possible by the use of its own fire hazard detection. The N-0200 makes it possible to connect the monitoring lines, where the following items are located: smoke detectors for automatic smoke (smoke and heat) detection, as well as manual smoke vent buttons for the commencement of a control and monitoring procedure for fire protection devices by someone who detects a fire.

The N-0200 is adapted for installation inside power supplies of fire protection devices that are compliant with the standard EN 12101-10 "Power Supplies". The N-0200 does not have its own source of power, nor does it have two separate supply paths. Therefore, it cannot be installed outside the cooperating power supply unit.
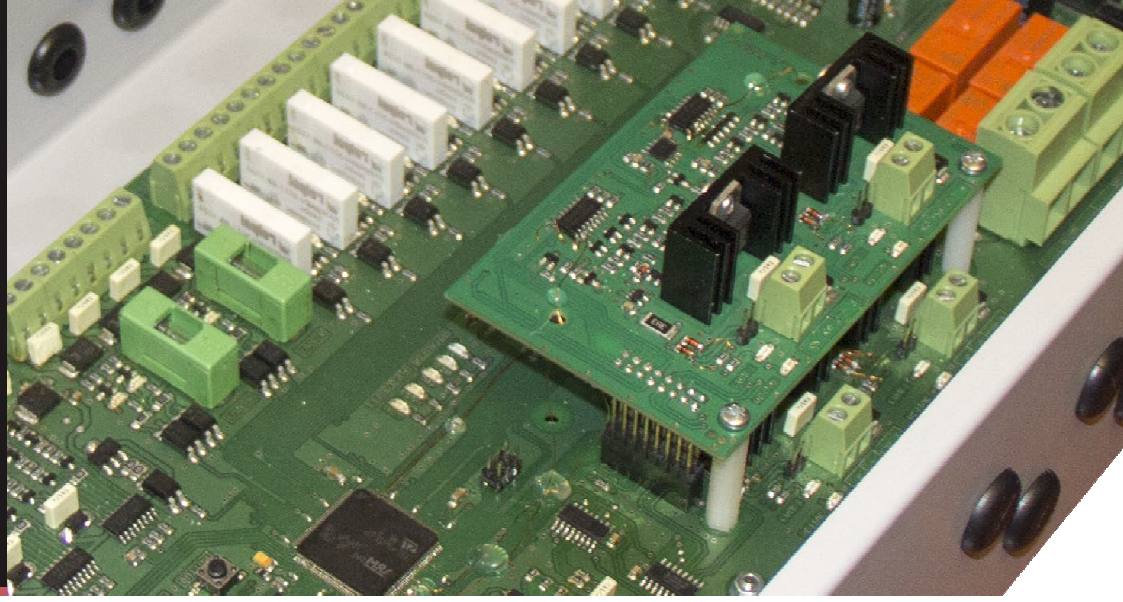
Operating Principle

The fire protection system control panel enters fire mode if a fire is detected automatically by the smoke and heat detectors, manually by means of manual smoke exhaust buttons or by receiving a signal from the fire alarm system.

Information about the fire mode is sent to the fire alarm system by triggering the dedicated output. In fire mode, the output for the intake vent is deactivated, which forces it open. At the same time, the polarity of the output of the exhaust element actuator is changed, thereby causing it to open. Signalling on the manual smoke vent buttons and on the outside of the power supply unit in which the control panel is installed also changes immediately and the red "Fire" indicator lights turn on. Outputs dedicated to controlling the acoustic and optical signalling devices are activated. The line of acoustic signalling devices can be muted by a button on the main board.

The control panel expects a feedback signal from a limit switch of the exhaust element, which will give information about an open state of a smoke vent for example. After receiving the signal, the control panel output dedicated to starting the fan is triggered. Correct execution of the algorithm and activation of the fan is confirmed by means of an operation confirmation output signal.

Technical Data

Table 1 – N-0200 Control Panel Technical Data

Type of control panel	N-0200
Ingress protection rating of the housing	IP 30
Operating temperature range	From -5 °C to +40 °C
Dimensions (length × width × height) [mm]	355 × 235 × 90
Supply voltage	24 V DC -20 +20%
Maximum power consumption during operation	15 A
24 V DC actuator output with variable polarity	1 pc
Maximum power consumption of the actuator at the 24 V DC output with variable polarity	12 A
Monitoring lines/smoke detector inputs	Number of lines: 4 (2 as standard + 2 optional)
	Maximum number of smoke detectors per line: 32
Lines of manual call point	Number of lines: 1 (optional 2 – it is possible to change the "Reset" function to the "Fire" function)
	Number of manual smoke vent buttons per line: 10

Type of control panel	N-0200
Outputs for manual smoke vent buttons	Number of lines: 1
	Number of smoke vent buttons per line: 10
Lines of signalling devices	Optical signal line – 1 pc
	Acoustic signal line – 1 pc
Dedicated voltage-free relay outputs	For the operation of the fan/air supply unit – 1 pc
	For the operation of the intake vent – 1 pc
	Fault – 1 pc
	Fire alarm – 1 pc
	Operation confirmation – 1 pc
Additional information	Equipment marketed based on: • National Technical Assessment: CNBOP-PIB-KOT-2019/0101-1008 • National Certificate of Constancy of Performance: 063-UWB-0191 • Approval

N-0200 – Fire Protection System Control Panel

When ordering, please provide information as follows:

N-0200 – <ADD>

Where:

N-0200	N-0200 Fire Protection System Control Panel
ADD	Additional PCB for smoke detectors*
	None – no smoke detector PCBs
	CD – equipped with a smoke detector PCB

* Optional values – if not specified, default values will be used

Example of an order: **N-0200-CD**