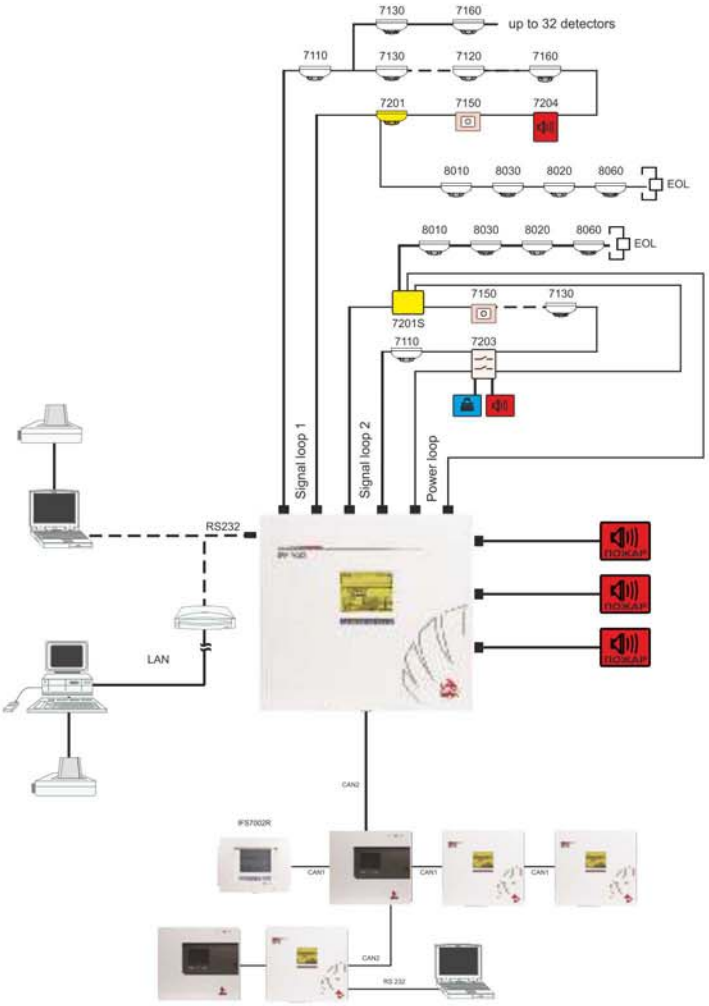
INTERACTIVE ADDRESSABLE FIRE ALARM SYSTEM IFS7000

The Interactive Addressable Fire Alarm System IFS7000 is designed for early detection and signaling of a fire condition, indicating the exact location of the fire or fault event.

A wide range of system components are available - Addressable Fire Control Panel, Repeater panel for remote indication and control, Automatic fire detectors and manual call points, Conventional adaptors, a variety of input-output modules, firmware for panels' network functionality.

The variety of IFS7002 type of panels and the IFS7000 network functionality - IFS7002 fire control panels and repeater panels to communicate with other remote IFS7002 fire control panels and remote repeater panels, makes the system suitable for various applications (schools, libraries, hotels, administrative buildings, etc.)

IFS7002
INTERACTIVE FIRE ALARM PANELS



FUNCTIONAL DATA

- Fire Control Panel and all devices, connected to the signal loops are fully programmable;
- Bidirectional data exchange between the Control Panel and the signal loop devices;
- Detection of Fault conditions: short circuit or open loop, removed detector or swapped fire detectors, loop's wires connection to "ground";
- Signal loops (with optional branch lines) for connecting of fire detectors, input or output modules, adapters, modules for automatic extinguishing;
- One power loop for supplying of the input / output modules and conventional adaptors (excluding IFS7002 panel with one signal loop);
- Automatic addressing of devices avoiding duplication of addresses;
- Automatic detection of devices type and parameters;
- Programmable delay for the fire outputs activation;
- Option for network operation of 32 IFS7002 fire control panels and repeaters;
- Option for connection to control station for remote configuration or monitoring in graphical and text mode;
- LED indication for the modes of the Fire Control Panel and the type of the fire or fault events;
- Built-in sound indication;
- Graphic LCD display for text messages visualization;
- Touch-screen activation of the buttons available on the Graphic LCD display;
- Dialogue menus in language selected by the user;
- Built-in PS2 interface for connection of a standard PC keyboard in set-up mode;
- Built-in real time clock;
- Option for network operation with FS5200E Fire Extinguishing Control Panel;
- A variety of Test modes and setup options;
- Real-time clock set up;
- Test mode for the light, sound indication and the touch-screen response;
- Testing of the fire alarm zones;
- Programmable 6 modes of activation for each addressable output and test procedure available for their triggering check;
- Remote programming of the system parameters from a dispatcher station;
- Non-volatile archive memory - 1024 events with detail information regarding the time and the type of the event. Helpful in the analysis of the fire conditions and fault events on the project;
- Option for operation with a graphical software for control and visualization "UniPOS-Intellect"

IFS7002
ONE SIGNAL LOOP

EVPU 1293-CPD-0292 | EN 54-2 EN 54-4 | CE 1293

IFS7002
TWO SIGNAL LOOPS

EVPÜ 1293-CPD-0292 | EN 54-2 EN 54-4 | CE 1293

IFS7002
FOUR SIGNAL LOOPS

EVPÜ 1293-CPD-0292 | EN 54-2 EN 54-4 | CE 1293

TECHNICAL DATA

Technical data/Control panel	with one signal loop	with two signal loops	with four signal loops
Fire Alarm Loops	1	2	4
Power Loops	-	1	1
Addressable devices in one loop	125	125	125
Cross section of the signal loop wire		up to 2,5 mm^2	
Maximum resistance of the signal loop		80Ω	
Number of devices in one branch		up to 32	
Fire Alarm Zones	up to 64	up to 250	up to 500
Addressable devices in one zone		up to 60	
Response time to activated detector signal		up to 10 s	
Registered events by the Counter of fire condition events	up to 9999	up to 9999	up to 19998
Registered events by the nonvolatile archive memory	up to 1023	up to 1023	up to 2046
Power supply:			
mains	220/230V AC, 50/60 Hz	220/230V AC, 50/60 Hz	220/230V AC, 50/60 Hz
back up battery	2x12V DC, 5Ah	2x12V DC, 18Ah	2x12V DC, 18Ah
Current consumption of the power loop	-	up to 1A	up to 1A
Outputs:			
relay, potential-free, switching		3 pcs. (3A/125V AC, 3A/30V DC)	
monitored, potential	2 pcs. (24±5) VDC/0,5A	2 pcs. (24±5) VDC/1A	2 pcs. (24±5) VDC/1A
auxiliary supply	1 pc. (24V DC/1A)	1 pc. (24V DC/3A)	1 pc. (24V DC/3A)
Interfaces:			
RS 232	1	1	1
CAN	1	2	2
Dimensions	286x148x125 mm	480x445x100 mm	493x464x110 mm
Weight (back up batteries not included)	2,2 kg	7,1 kg	10 kg
Operating temperature range		minus 5°C to 40°C	
Relative humidity resistance (no condensation)		≦ 95%	
Degree of protection		IP 40	
Order number	IFS7002-1	IFS7002-2	IFS7002-4

IFS7002R

REPEATER FOR INDICATION AND CONTROL

The repeater panel provides additional indication and control of the fire alarm systems, designed on the basis of the addressable fire control panels IFS7002.

IFS7002R exchanges data and control commands with one or several remote addressable fire control panels IFS7002 and repeaters, connected in a local network.

The device is suitable in premises where:

- the persons that are expected to find and initially respond to the fire condition and/or fault condition alarm are situated on a different place from the location of the fire control panel/s;
- fire control panels, located in different buildings have to be monitored and controlled from one location;
- the fire control panel or panels are monitored from several locations simultaneously.

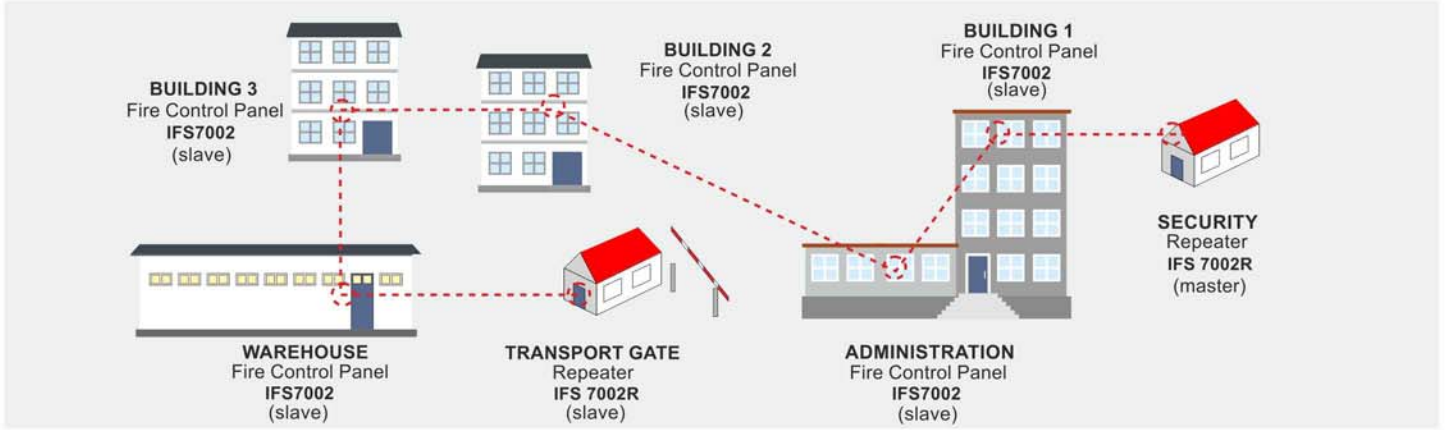
FUNCTIONAL DATA

- Number of the control panels or/and repeaters,connected to IFS7002R-up to 31;
- Maximum distance between the Repeater and the most distant control panel-2400m
- Indicating fire condition and/or fault condition from each zone or fire detector from the connected to it remote panels.
- Full range of commands available for sending to the remote fire control panels;
- Remote panels' parameters review and full access to the set-up of these parameters;
- User-friendly menu dialogue for easy and convenient operation;
- Graphic LCD display for visualizing the remote fire control panels status;
- Dynamic keypad based on a Touch-screen panel;
- Built-in PS2 interface for connection of a PC keyboard for set-up mode;
- LEDs and sound indication for faults, fire and other operation modes;
- Built-in real time clock;
- Interface for communication with remote fire control panels - CAN 2.0B;
- Interface for communication with PC – RS-232 directly or LAN via a converter RS– LAN.

TECHNICAL DATA

INDICATION	
Light indication	LED
Text message	graphic LCD, 320x240 points, backlit
Sound signaling	built-in sounder
POWER SUPPLY	
From the fire control panel connected with the repeater IFS7002R	
Voltage	(23±7)V DC
Maximum current value	180 mA
From external power supply (in compliance with EN54-4)	
Voltage	(10 - 30)V DC
Maximum current value	310 mA

EN 54-2
EN 54-4
EN 54-13



FIRE DETECTORS

Remarkable for their state-of-art low profile design, that makes them suitable for the most demanding and prestigious interior. The base allows easy installation and provides interchangeability of the fire detectors. Two diametrically situated LEDs are providing 360° angle visibility. In Duty mode they are flashing for a very short time, and in Fire condition they are continuously flashing. Each fire detector has a built-in short circuit isolator that additionaly contributes to the high reliability of the fire alarm system.
The fire detectors are addressable and interactive, ensuring that the exact point of the fire is located. Communication between the fire detectors and the Fire Control Panel is based on the private data exchange protocol UniTALK.

FD7110
FIXED TEMPERATURE HEAT DETECTOR

EN 54-5
EVPU 1293-CPD-0278

The fire detector provides a reliable early warning of a Fire condition upon ambient temperature reaching a fixed temperature threshold.
The temperature class (A1S, A2S or BS) is in compliance with the European Standard EN 54-5 and is programmable by Fire Control Panel IFS7002.
The fire detector is suitable for premises with normal and high ambient temperature, with possible sudden changes.

LPCB 1107a/01- EN54-5 0832-CPD-1875

EN 54-5
EVPU 1293-CPD-0279

FD7120
RATE OF RISE HEAT DETECTOR

The fire detector provides a reliable early warning of a Fire condition upon reaching a rate of rise of the temperature or fixed temperature threshold in the protected premises.
The temperature class (A1R, A2R or BR) is in compliance with the European Standard EN 54-5 and is programmable by Fire Control Panel IFS7002.
The fire detector is suitable for premises with normal ambient temperature, without possible sudden changes.

FD7150
MANUAL CALL POINT

EVPU 1293-CPD-0288
EN 54-11

For options see page 10 (FD3050's Additional options).

It is designed to release a signal for a Fire condition to the Fire Control Panel IFS 7002 upon manual activation by breaking the glass on the place assigned by the arrows.
The light indication for activation of the manual call point is provided by a red LED.
There is possibility for testing by means of the special key.
It is in compliance with the requirements of the European Standard EN 54-11 for A class manual call point and EN 54-17.

LPCB 1107b/01-EN54-7 0832-CPD-1877

EN 54-7
EVPU 1293-CPD-0280

FD7130
OPTICAL-SMOKE FIRE DETECTOR

The fire detector provides a reliable early warning of a Fire condition responding to fixed threshold smoke concentration detected in the protected premises.
The smoke sensitivity (low, middle or high) is in compliance with the European Standard EN 54-7 and it is programmable by Fire Control Panel IFS 7002.
The fire detector operates with an improved algorithm for self-compensation of the optic chamber contamination, signaling the necessity for cleaning the chamber. It is done quickly due to the easy dismantling and assembling of the body cover.
The construction of the optic chamber and the new technology used in the manufacturing of the screen provides high level protection against entering dust particles and insects and working under strong air flow.

LPCB 1107c/01-EN54-5/EN54-7 0832-CPD-1879

EN 54-5
EN 54-7

FD7160
COMBINED FIRE DETECTOR

The fire detector provides a reliable early warning of a Fire condition responding to fixed threshold smoke concentration or rate of rise of the temperature or fixed temperature threshold detected in the protected premises.
It combines the advantages of a type FD 7120 and a type FD 7130 and it is an attractive option due to decreased expenses for supply and installation.
The temperature class (A1R, A2R or BR) and the smoke sensitivity (low, middle or high) are programmable by Fire Control Panel IFS 7002 and they are in compliance with the European Standard EN 54-5 and EN 54-7.

CE 1293

TECHNICAL DATA

CHARACTERISTICS/MODEL	FD 7110	FD 7120	FD 7130	FD 7160
Operation	microprocessor controlled, fixed temperature threshold dependable	microprocessor controlled, fixed temperature threshold and rate of rise dependable	distraction of light, (Tyndall effect) microprocessor controlled	distraction of light (Tyndall effect) fixed temperature threshold dependable
Supply voltage	(15-30)V DC	(15-30)V DC	(15-30)V DC	(15-30)V DC
Terminals	for wires with cross section up to 2,5 mm^2			
Degree of protection	IP 43	IP 43	IP 43	IP 43
Operation temperature range	minus 10°C to 55°C	minus 10°C to 55°C	minus 10°C to 55°C	minus 10°C to 55°C
Relative humidity resistance	(93±3)% at 40°C	(93±3)% at 40°C	(93±3)% at 40°C	(93±3)% at 40°C
Sensitivity and Temperature class	in accordance with EN 54-5, class A1S, A2S or BS	in accordance with EN 54-5, class A1R, A2R or BR	in accordance with EN 54-7	in accordance with EN 54-7 and EN 54-5, class A1R, A2R or BR
Mounting	using base type 7100	using base type 7100	using base type 7100	using base type 7100
Dimensions (base included)	ø100, h 47 mm	ø100, h 47 mm	ø100, h 47 mm	ø100, h 52 mm
Casing material	ABS plastics, white	ABS plastics, white	ABS plastics, white	ABS plastics, white
Weight (base included)	0,100 kg	0,100 kg	0,100 kg	0,100 kg
Protected area	circle with diameter 10m, h 8m	circle with diameter 10m, h 8m	circle with diameter 15m, h 11m	circle with diameter 10m, h 8m