



for a safer world!

FIRE DETECTION SYSTEMS

2023



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FIRE DETECTION SYSTEMS
ADDRESSABLE | CONVENTIONAL



FIRE DETECTION

ANALOGUE ADDRESSABLE FIRE DETECTION SYSTEM



BSR-1001 **EVPU** Addressable fire detection control panels with 1, 2 or 4 loops/128 zones (Olympia A Protocol)
BSR-1002 **EVPU**
BSR-1004 **EVPU**

BSR-1000 **EVPU** Repeater panel for BSR-100x

The BSR-100X series of analogue addressable fire alarm panels consists of 3 models (1, 2 and 4 loop connections), named BSR 1001, BSR -1002 and BSR 1004 respectively, all sharing the same control interface, functionality and indications.

The accompanying software application for Windows PC, BSR-100X provides utilities for calculating installation parameters, configuring the control panel and keeping an event log record.

All BSR 100X models include 4 outputs for conventional sirens, an alarm relay, a fault relay and a programmable auxiliary relay. Two 12V lead acid (Pb) batteries are required in each control panel. The supported battery capacity is 7Ah, 9Ah, 12Ah or 15Ah, which must be calculated in accordance with the size of the installation (number of devices) and the required emergency duration (during mains interruption).

The available loop connections are: 1 for BSR -1001, 2 for BSR - 1002 and 4 for BSR -1004. Each loop output connection can support up to 150 addressable units (smoke and heat detectors, addressable sirens, manual fire call points, etc).

All features and indications are in accordance with European standards EN 54 2 and EN 54 4. The BSR 100X series analogue addressable fire alarm panels is ideal for medium to large scale facilities such as department stores, hotels and factories because of the ability to have up to 4 panels networking and up to 8 repeaters networking.

The BSR-1000 repeater provides to the user the ability to perform basic system functions and an overview of the current state and events of the panel network via the built-in keypad and illuminated graphics display.



BSR-6155 **EVPU**

Addressable optical smoke detector with integrated isolator (Olympia A Protocol)

- Standby consumption 195µA, alarm consumption 2,5mA
- Smoke concentration sensitivity adjustable from 0.107 to 0.300 in 0.010 dB/m steps



BSR-6157 **EVPU**

Addressable optical smoke and heat detector, Rate-Of-Rise or Static [user programmable], with integrated isolator (Olympia A Protocol).

- Standby consumption 195µA, alarm consumption 2,5mA
- Smoke concentration sensitivity adjustable from 0.107 to 0.300 in 0.010 dB/m steps
- Class A1R/A1S



BSR-6160 **EVPU**

Addressable heat detector Rate-Of-Rise or Static (user programmable), with integrated isolator (Olympia A Protocol)

- Standby consumption 90µA, alarm consumption 2,5mA
- Class A1R/A1S/CS



All the above models can be manufactured in anthracite color upon demand with code BS-xxx/A/C



BSR-8120 **EVPU**

Addressable twin input/output unit with integrated isolator (Olympia A Protocol)

- External voltage 12-30V DC
- Standby consumption 200µA, alarm consumption 2,5mA



BSR-5136 **EVPU**

Addressable manual call point unit with integrated isolator (Olympia A Protocol)

- Standby consumption 90µA, alarm consumption 2,5mA



BSR-5132/WP **EVPU**

Waterproof addressable sounder with beacon and integrated isolator (Olympia A Protocol)

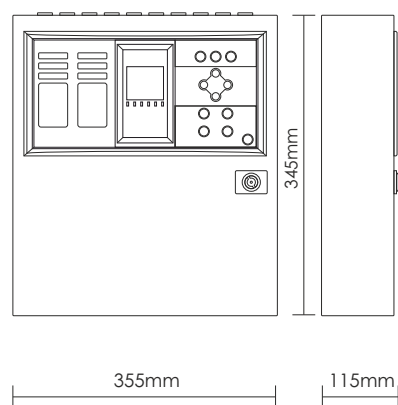
- Standby consumption 90µA, alarm consumption 11,2 to 52,4mA
- Maximum sound level 101dB



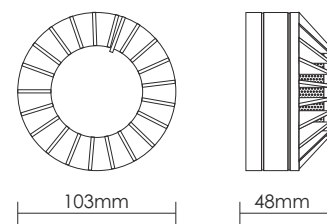
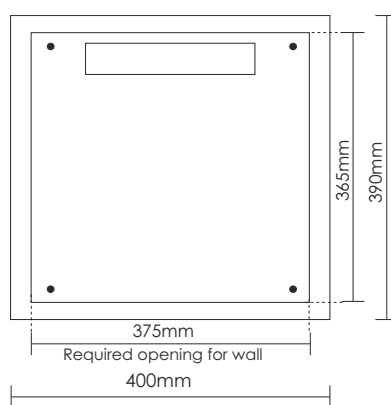
Technical Characteristics

	BSR-1001 Addressable fire detection panel 1 loop / 128 zones	BSR-1002 Addressable fire detection panel 2 loops / 128 zones	BSR-1004 Addressable fire detection panel 4 loops / 128 zones	BSR-1000 Repeater panel
Mains power input	220-240V AC/50-60HZ			
Consumption	130 VA max			
Autonomy	up to 72 hours (without loads at 24VM and 24VP outputs)			
Conventional sounder / siren circuits	4 x 24VDC (± 3VDC) / 300mA max short / open circuit monitored 10KOhm termination resistor			
24VP Output	24VDC (± 3VDC) permanent output / 300mA max short-circuit monitored			
24VM Output	24VDC (± 3VDC) resettable output / 300mA max short-circuit monitored			
Relay Output	3 relay contacts (30VDC/5A)			
Total Load	The total current of the panel (loops, siren circuits, outputs 24P, 24M) must not exceed 2A			
Loop	1 loop	2 loops	4 loops	
Battery Specifications				
Battery Type	2 lead batteries sealed 12V / 7-15Ah			
Battery cut-off voltage	20,5V			
Maximum battery current discharge	2A max			
Battery resistance (ESR)	1Ohm max(higher values will lead to battery resistance fault)			
Structural characteristics				
Cover protection	IP 30			
Construction materials	ABS/PC, electrostatically painted steel			
Dimensions (LxWxH)	355 x 115 x 345 mm			
Weight (without batteries)	4080 gr.	4210 gr.	4330 gr.	4060 gr.

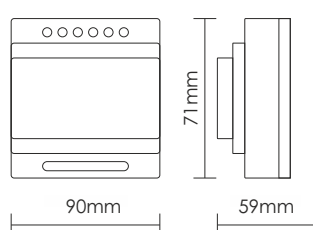
Dimensions



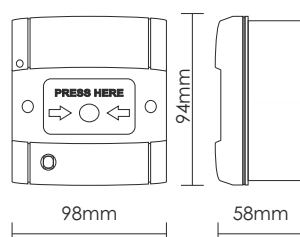
BSR-6160, BSR-6157, BSR-6155



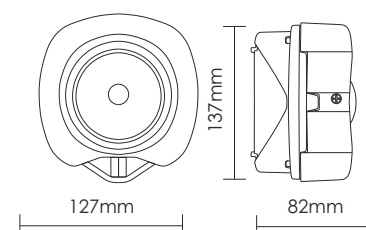
BSR-6155, BSR-6157, BSR-6160



BSR-8120



BSR-5136



BSR-5132/WP



FIRE DETECTION CONVENTIONAL FIRE DETECTION SYSTEM



The family consists of 3 panels (8, 12 and 16 zones) with identical controls and indications. They have 2 outputs for sirens, an alarm relay, a fault relay and a programmable auxiliary relay.

For there operation, two A-986 (12V/7Ah) batteries are required. Alternatively two A-961 (12V/9Ah) batteries can be used for greater autonomy.

In detail the BS-1638 panel has 8 zones, the BS-1642 has 12 zones and the BS-1646 has 16 zones.

All functions and indications are according to the European norms EN 54 - 2 and EN 54 - 4.

The panels offer up to 16 zones and are suitable for large installations such as shopping malls, hotels and factories.

They offer a wide range of settings and characteristics for controlling the installation equipment and sirens which can be easily adjusted using a PC via an Ethernet connection.

BS-1638 **EVPU** Conventional fire
BS-1642 **EVPU** detection panels
BS-1646 **EVPU** 8, 12, 16 zones



EVPU

BS-655/A

Optical smoke detector with base

- Standby consumption 90µA, alarm consumption 12mA
- Sensitivity 0.107dB/m
- Voltage 17-30V DC



EVPU

BS-657/A

Optical smoke/rate of rise heat detector with base

- Standby consumption 90µA, alarm consumption 12mA
- Sensitivity 0.107dB/m
- Class A1R
- Voltage 17-30V DC



EVPU

BS-660/A

Rate of rise heat detector with base

- Standby consumption 90µA, alarm consumption 12mA
- Class A1R
- Voltage 17-30V DC



EVPU

BS-532/WP

Waterproof sounder with beacon according to EN 54-3, EN 54-23, 32 different tones in 4 sound levels, 2 beacon functions

- Alarm consumption 18 to 51mA
- Maximum sound level 103dB



EVPU

BS-536

Manual call point

- Alarm current 8-30mA
- Alarm resistor 470ohm



BOX-530

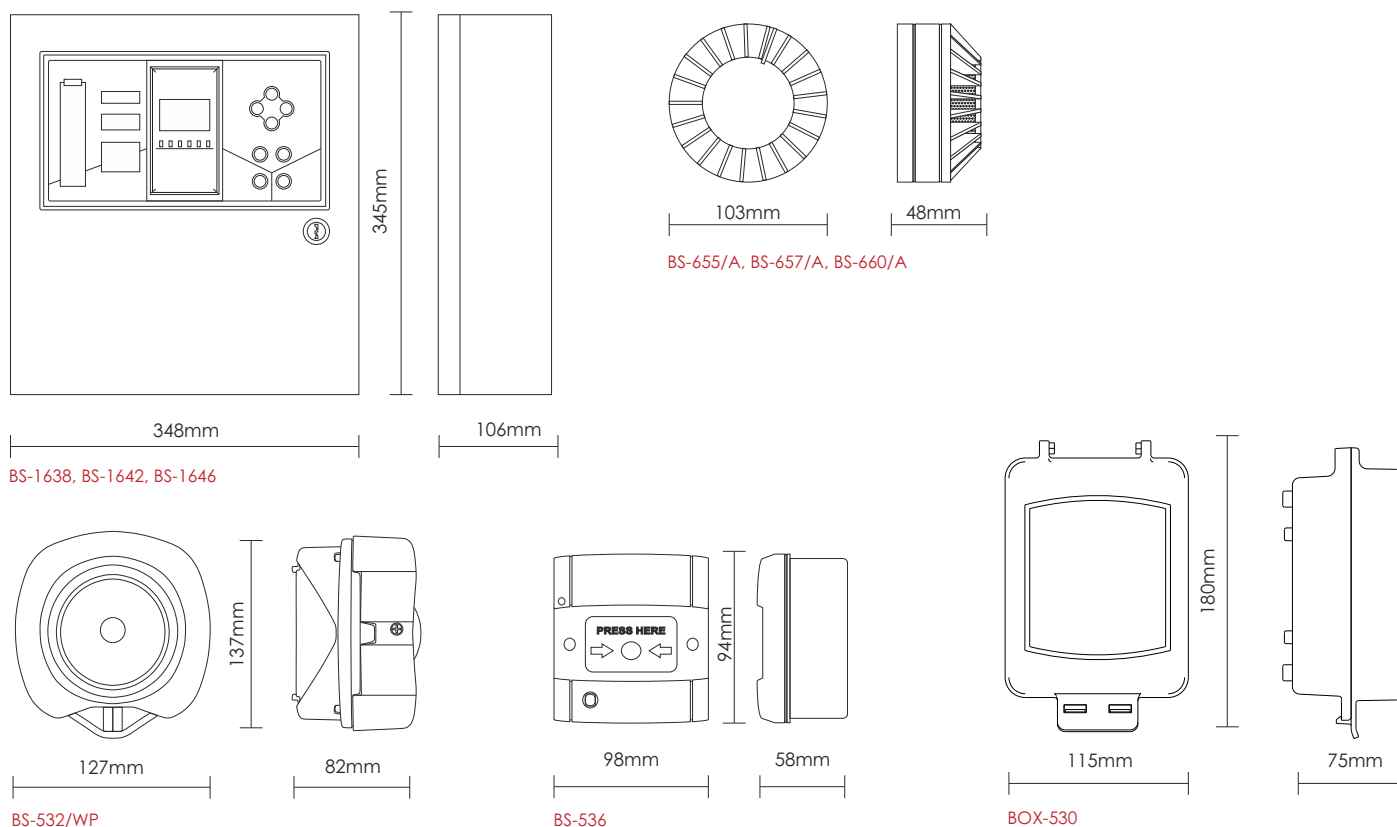
Waterproofing case for fire detection- extinguishing manual call point (stickers are included - fire alarm call point is not included)



Technical Characteristics

	BS-1638 8 zones fire detection panel	BS-1642 12 zones fire detection panel	BS-1646 16 zones fire detection panel
Mains power supply	220-240V AC/50-60HZ		
Consumption	100 VA		
Autonomy	72 hours with two 12V/7Ah batteries		
Alarm circuits	Two 24V circuits that are monitored for open and short - circuit conditions (The maximum current for each circuit is 300mA)		
Output 24P	24VDC (±3VDC) permanent output with a maximum current of 0.3 A. The output is protected by a resetable electronic fuse		
Output 24M	24VDC (±3VDC) output which is interrupted during a reset.		
Output relays	Three relay contacts that can handle up to 30V DC and 5 A maximum. All the output relays must be protected with fuses with the same rating.		
Total power	The total output power (zone circuits, siren circuits, outputs 24P and 24M) must not exceed 1A		
Battery Specifications			
Battery Type	2 lead batteries sealed 12V / 7-15Ah		
Battery cut of voltage	21V		
Maximum current batteries discharge	1A		
Battery maximum internal resistance Rimax	1Ohm		
Structural characteristics			
Cover protection	IP 30		
Construction materials	ABS – PC, electrostatically painted steel		
Dimensions (LxWxH)	345 x 106 x 348 mm		
Weight (without batteries)	3740gr	3780gr	3820gr

Dimensions





FIRE DETECTION CONVENTIONAL FIRE DETECTION SYSTEM



The family of fire detection panels consist of 3 types (2, 4 and 6 zone) with identical operation and indications. The panels have 2 independent siren outputs, Alarm, Fault Relay and a programmable AUX relay.

The required batteries for the panels are two A-920 (12V/2.6Ah). All functions and indications are according to European Norms EN 54-2 and EN 54-4.

BS-1632 Conventional fire
BS-1634 detection panels
BS-1636 2, 4, 6 zones



FIRE DETECTION ACCESSORIES SET BS-1620

Contains:

- BS-1632 conventional fire detection control panel.
- BS-655/A x 2 smoke detector.
- BS-536 manual call point.
- BS-532/WP siren with beacon.
- A-920 batteries 12V/2.6Ah x2 for the panel.



EVPU

BS-655/A

Optical smoke detector with base

- Standby consumption 90µA, alarm consumption 12mA
- Sensitivity 0.107dB/m
- Voltage 17-30V DC



EVPU

BS-536

Manual call point

- Alarm current 8-30mA
- Alarm resistor 470ohm



EVPU

BS-532/WP

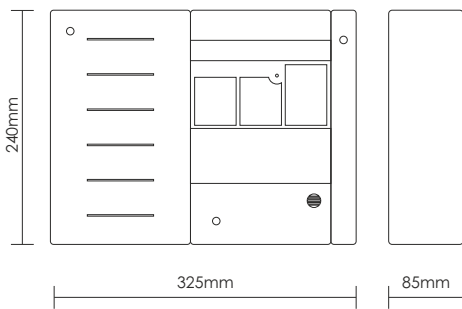
Waterproof sounder with beacon according to EN 54-3, EN 54-23, 32 different tones in 4 sound levels, 2 beacon functions

- Alarm consumption 18 to 51mA
- Maximum sound level 103dB

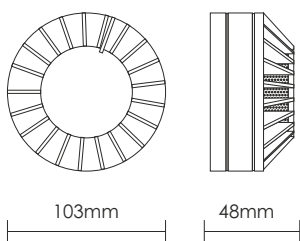
Technical Characteristics

	BS-1632 2 zone fire detection panel	BS-1634 4 zone fire detection panel	BS-1636 6 zone fire detection panel
Mains power input	220-240V AC / 50-60Hz		
Consumption	50VA		
Autonomy	72 hours (Maximum connected detectors 72 and no load at output 24VM and 24VP)		
Alarm circuits	Two 24V circuits that are monitored for open and short circuit conditions (maximum current 300mA each). Each output is protected with a self-resetting electronic fuse.		
24P Output	24VDC (±3VDC) permanent output with maximum current output 0.3 A		
24M Output	24VDC (±3VDC) reset interrupted output with maximum current output 0.3 A		
Relay Output	Three relay contacts with each one having 30VDC and maximum 5A		
Total Load	The total output current (zones circuits, siren circuit, outputs 24P, 24M) must not exceed 600mA.		
Battery Specifications			
Battery Type	2 x 12V Lead acid sealed 2.6Ah		
Battery cut-off voltage	21V		
Maximum current batteries discharge	900mA		
Battery maximum internal resistance Rimax	10hm		
Structural characteristics			
Cover protection	IP30		
Construction materials	ABS - polycarbonate		
Dimensions (LxWxH)	325 x 240 x 85 mm		
Weight (without batteries)	1345gr without battery	1350gr without battery	1360gr without battery

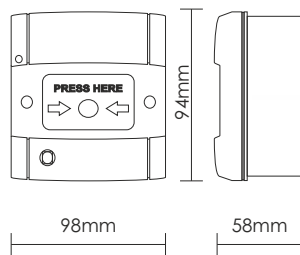
Dimensions



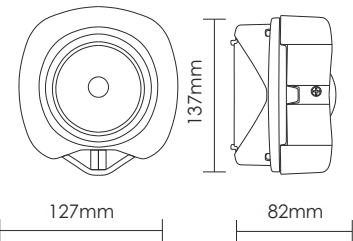
BS-1632, BS-1634, BS-1636



BS-655/A, BS-657/A, BS-660/A



BS-536



BS-532/WP

▽ ROOF FLOOR

▽ 2nd FLOOR

CADDY BLD

CART PARK BLD



FIRE ALARM RISER DIAGRAM

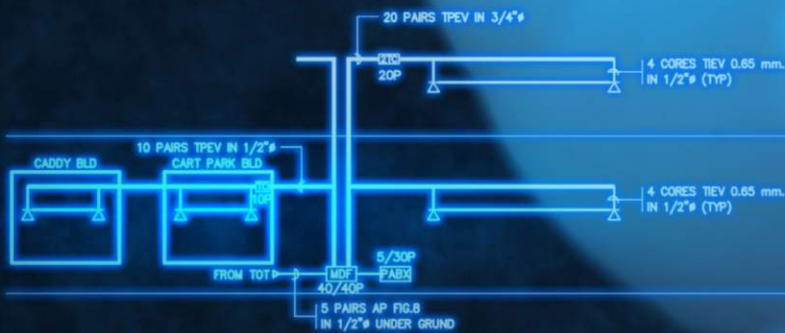
▽ 1st FLOOR

▽ ROOF FLOOR

▽ ROOF FLOOR

▽ 2nd FLOOR

▽ 1st FLOOR



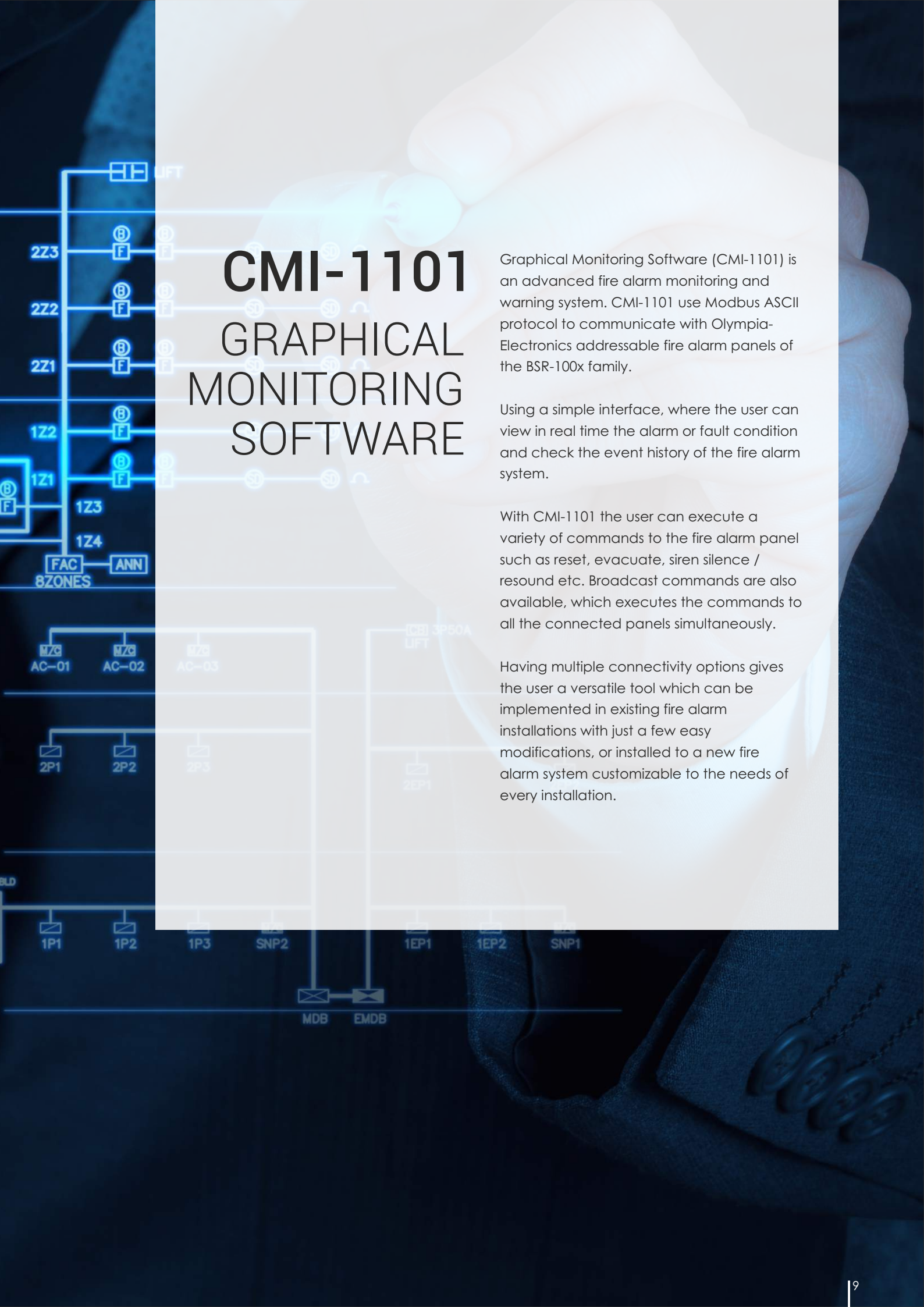
▽ 2nd FLOOR

CADDY BLD CART PARK BLD



▽ 1st FLOOR

TELEPHONE RISER DIAGRAM

A hand is shown holding a glowing blue sphere. Overlaid on the sphere and the background is a complex network diagram with various nodes and connections. The diagram includes labels such as 'LIFT', '2Z3', '2Z2', '2Z1', '1Z2', '1Z1', '1Z3', '1Z4', 'FAC', 'ANN', '8ZONES', 'AC-01', 'AC-02', 'AC-03', '3P50A LIFT', '2P1', '2P2', '2P3', '2EP1', '1P1', '1P2', '1P3', 'SNP2', '1EP1', '1EP2', 'SNP1', 'MDB', and 'EMDB'.

CMI-1101

GRAPHICAL MONITORING SOFTWARE

Graphical Monitoring Software (CMI-1101) is an advanced fire alarm monitoring and warning system. CMI-1101 use Modbus ASCII protocol to communicate with Olympia-Electronics addressable fire alarm panels of the BSR-100x family.

Using a simple interface, where the user can view in real time the alarm or fault condition and check the event history of the fire alarm system.

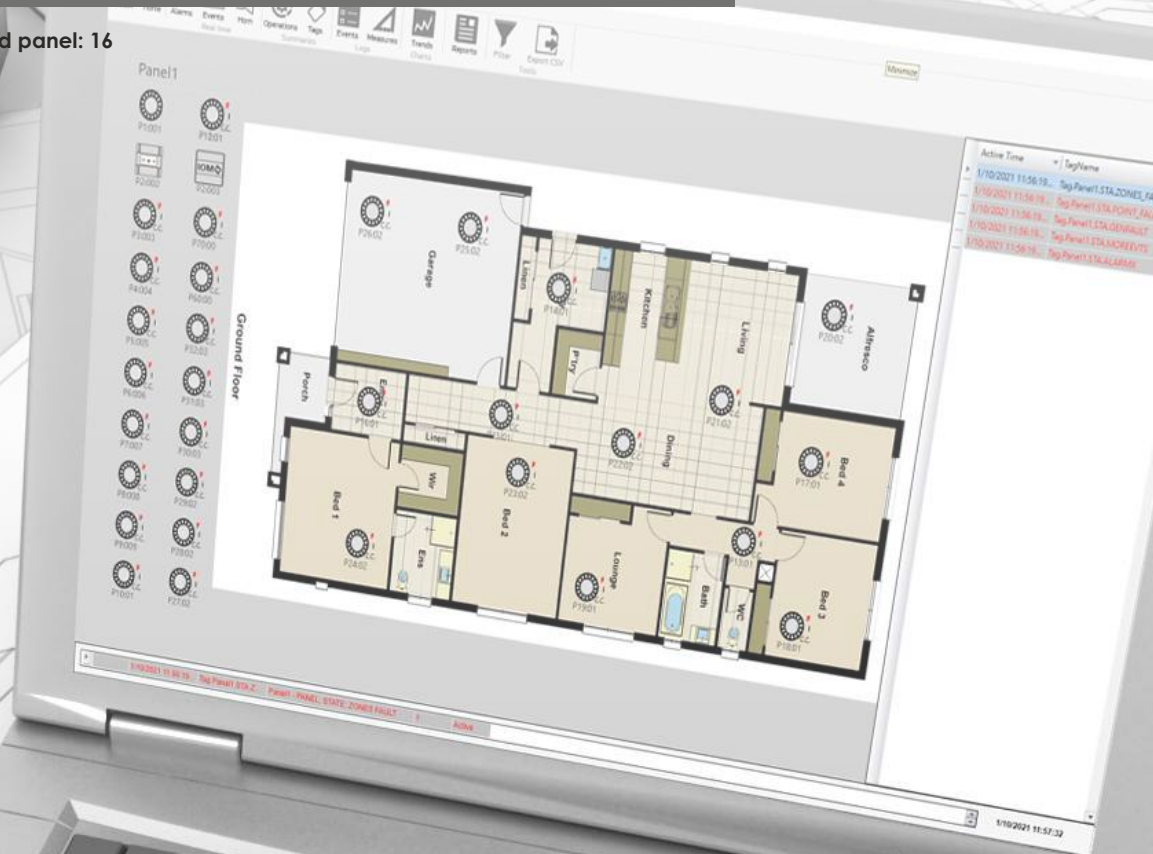
With CMI-1101 the user can execute a variety of commands to the fire alarm panel such as reset, evacuate, siren silence / resound etc. Broadcast commands are also available, which executes the commands to all the connected panels simultaneously.

Having multiple connectivity options gives the user a versatile tool which can be implemented in existing fire alarm installations with just a few easy modifications, or installed to a new fire alarm system customizable to the needs of every installation.

GRAPHICAL ENVIRONMENT SOFTWARE FOR FIRE DETECTION SYSTEM MANAGEMENT

CODE	TYPE	DESCRIPTION
921110100	CMI-1101	Basic license (Visual software monitor) for 1 panel BSR-1001 or BSR-1002 or BSR-1004
921110200	CMI-1102	Extended license for second PC
921110300	CMI-1103	Extended license for extra panel BSR-1001 or BSR-1002 or BSR-1004*

*max number of supported panel: 16

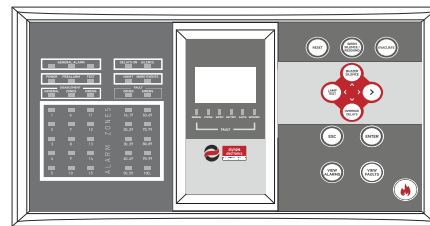


Advantages of CMI

With Graphical Monitoring Software (CMI-1101) the user has the ability to

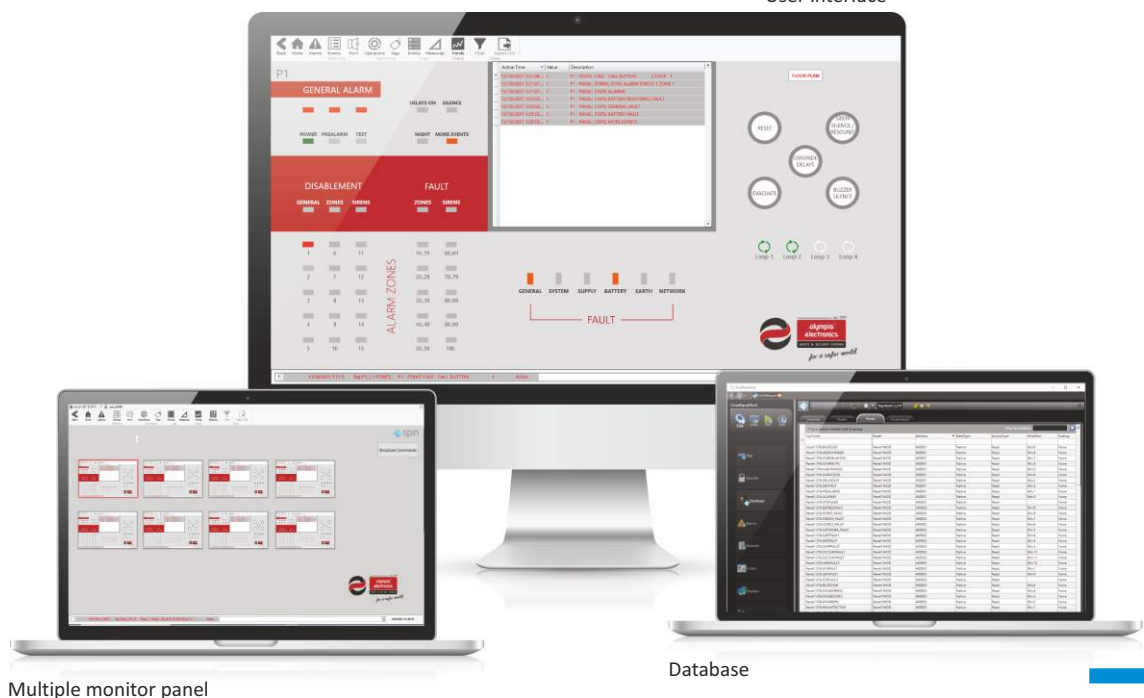
- Real time monitor of the fire alarm installation
- Multiple panels connection with one USB cable or more if it's necessary
- UI interface similar with BSR-100x family fire alarm panel
- Multiple panels monitoring in the same software
- Import floor plans in multiple file formats (png, jpg, bmp, tiff etc).
- Drag and drop icon placement provides easy device location on floor plans
- Alarms and faults indication in both panel and floor plan
- Color coded messages about the events (alarm, fault etc.) for direct and easy monitoring
- Special commands from software to panel (reset, evacuate, siren silence / resound etc.)
- Broadcast commands to all the connected panels at once
- Monitor the same fire alarm system from a second PC connected to the local Network

The CMI-1101 UI is identical to the real BSR-100X panel, making it easy and straight forward to use. The software follows the exact behavior of all the functions of the real panel, such as the LEDs, the display screen, the commands.



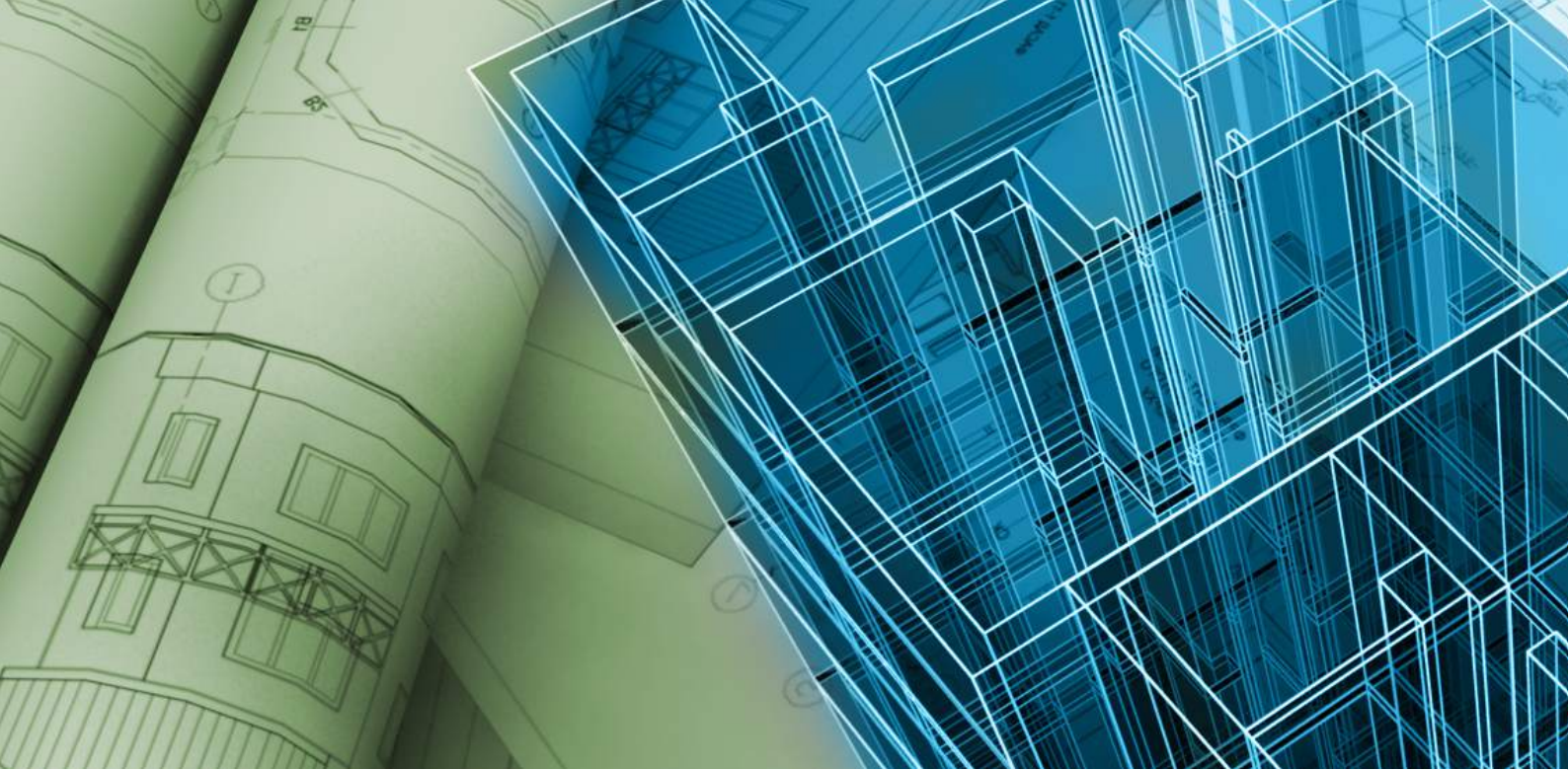
Graphical Monitoring Software CMI-1101

User interface



Multiple monitor panel

Database

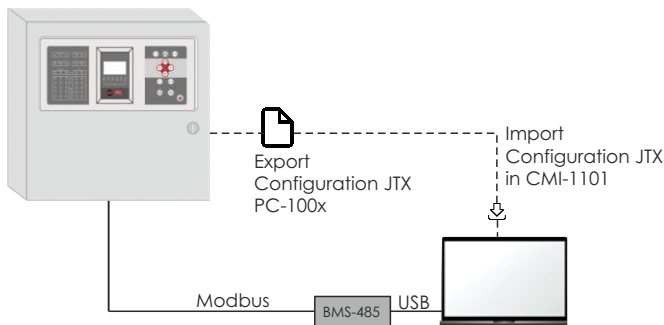


Configuration

The configuration requires two steps:

- Connect the panel to the BMS-485 device and then to the PC's USB port
- Import the .jtx file of the specific fire alarm installation (exported from the PC-100X software) and configure the software

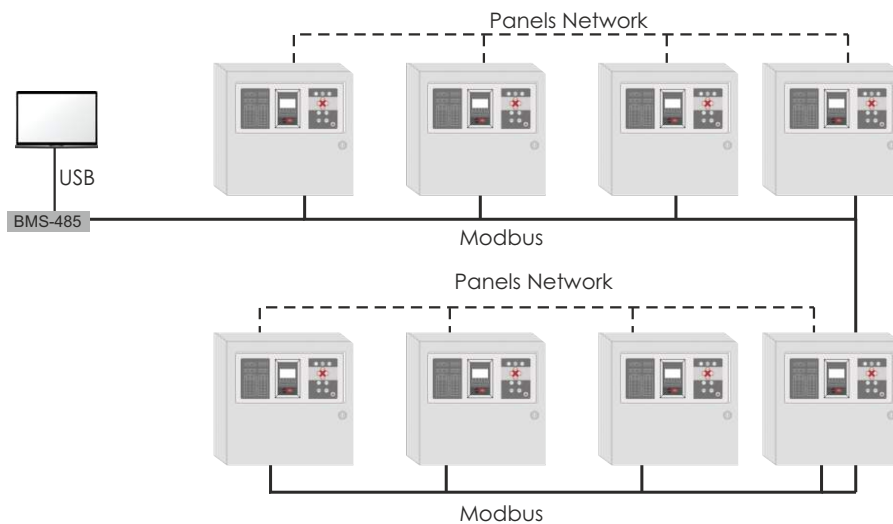
Configuration diagram



Connectivity

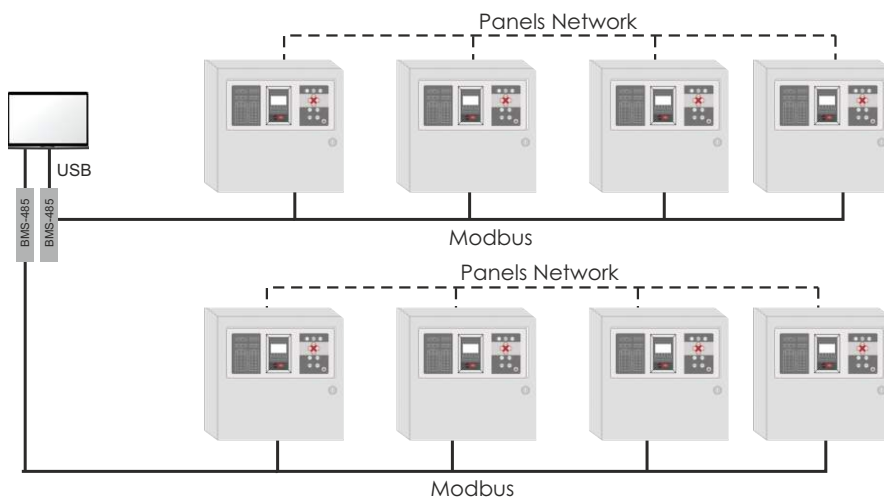
There are two ways of connecting (up to 15) BSR-100X panels to CMI-1101 PC software:

- Using one BMS-485 USB device, and all the panels connected in parallel

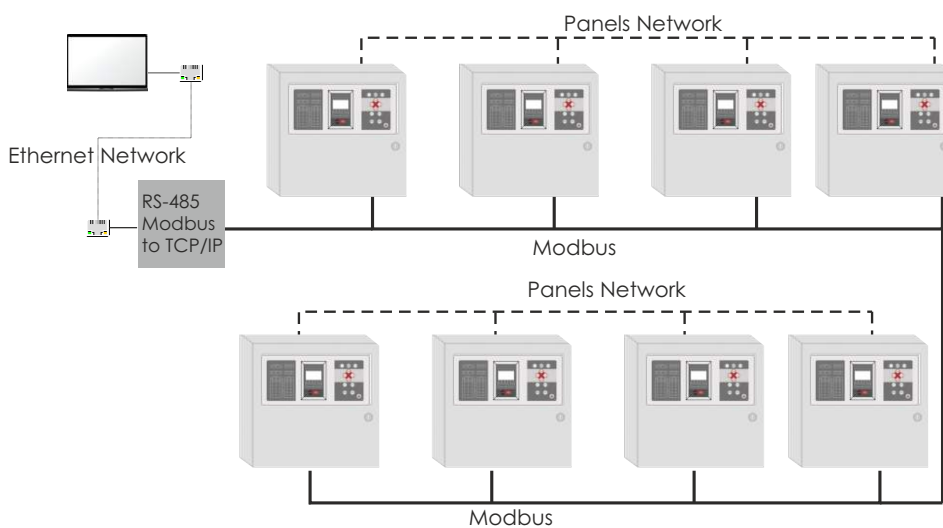




- Using more than one BMS-485 USB devices, and connect the panels in groups in parallel, each group having its own BMS-485 USB device



- The software also supports communication over Ethernet, with the use of a converting RS-485 to Ethernet (TCP/IP) gateway device.



NEW

VOICE EVACUATION SYSTEM

COMPACT 500



The **Compact 500** offers a complete, integrated solution for a Voice Alarm Control and Indicating Equipment (VACIE) system, based on the boxed-amplifier concept.

Each Compact unit is fully self-contained, including the routing necessary to serve up to 6 single zones of 100W RMS power each, with additional active back-up amplifiers. It also offers the additional capability for the amplifiers to be bridgeable, for a total of 3 zones of 200W RMS.

The Class D power amplifiers used in the Compact 500 offer high efficiency (80% rated power) operation at 100V RMS and a full spectrum bandwidth from 50 Hz to 20 kHz, as well as a low Signal to Noise (SNR) ratio, rated at less than 80dB. It is also able to be used as a Public Address (PA) system, as well by offering the capability to play Background Music (BGM) due to its full spectrum bandwidth of 50 Hz to 20kHz, low input-output latency (less than 10 ms) and advanced DSP features (HP/LP filter, multipoint parametric eq).

The system has a built-in power supply, EN 54-4 certified, rated to operate with voltages of 110-230 V AC, 50/60 Hz and it is compatible with 2x12V Pb batteries of up to 55 Ah, offering large autonomy.

The Compact 500 system is fully networkable, for up to 255 devices in a global network, and it is able to connect to Olympia-Electronics fire detection panels, offering the ability to fully cover large installations. The capability of the system to be utilized as a PA, makes it suitable for projects such as malls, airports and schools, leading to a simplified installation with increased safety for the occupants.



LDB

Loopdrive booster module

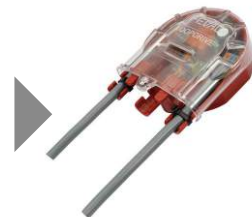
- 1 audio input
- 1 loop output
- 18-36V DC
- IP30



4E-SW6

Remote zone expander interface

- 2 audio in 100V AC 500W each
- 6 audio outputs 500W total,
- 18-36V DC
- IP30



FIM-i

Field isolator module

- IP30



4E-LCF6/ENC

Speaker 100V AC

- 6/3/1,5W
- 98,4dB
- IP21



4E-LCS6/ENC

Speaker 100V AC

- 10/6/3/1,5W
- 102,2dB
- IP21



4E-FMT

Fireman microphone with 7" touchscreen

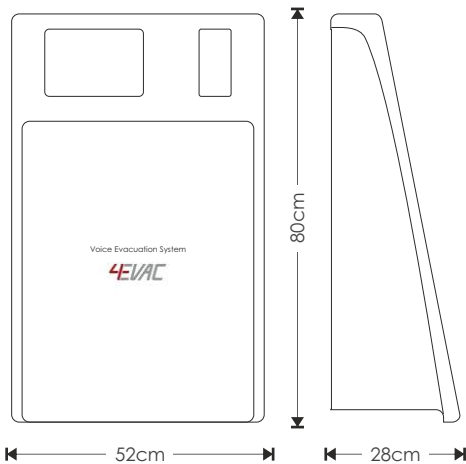
- wall or tabletop mounted

Technical specifications

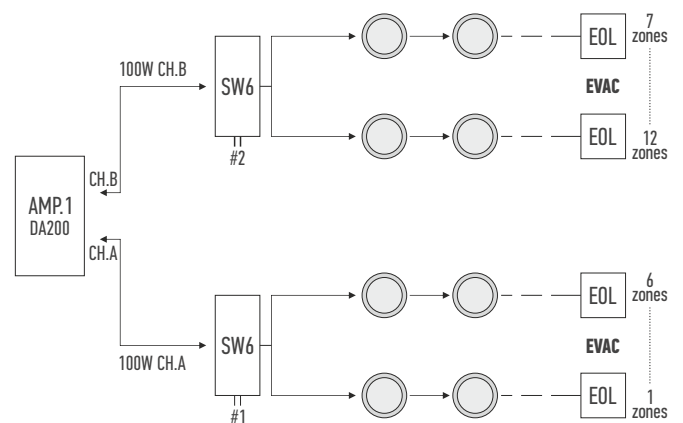
Number of zones	max. 6 local zones
Total output power	600W (pink-noise)
Power amplifiers	up to 6 x 100W modular Class D (2 channels per module) bridgeable up to 3 x 200W
Standby power amplifiers	2 x 100 W / 1 x 200 W Class D dedicated backup amplifiers
Loudspeaker type	V step-down transformer.
Voice messages	
Storage	max. 16 audio files x 1 minute, micro-SD card with content monitoring
Message player	max. 6 simultaneous local message playback
Power supply equipment	Built-in power supply system EN 54-4 certified.
AC supply	110 – 230 V AC, 50/60 Hz
AC current consumption	max. 5.3 A @115 V AC / 2.65A @230 V AC
Inrush current	40A @115 V AC, 20A @230 V AC
Power supply protection	Overload current limiting, over voltage shutdown, over temperature shutdown.
Battery requirements	
Type	Sealed, rechargeable lead-acid battery for stationary use
Capacity, charging time	10-55 AH, <24 h @ 80% capacity
Rated voltage	24 V DC (2 x 12 V)
Battery dimensions	2 batteries, each of max. 230x138x207mm (LxWxH)
Battery weight	max. total 32.6 kg

Inputs	
2 x BGM	2 x independent balanced analog in, line-level mono, 22 kΩ input impedance
6 x EVAC in, 1x SILENCE in, 1x RESET in	monitored logic inputs, 4.7 kΩ +10 kΩ EOL resistor
8 x GPI	unmonitored logic inputs (pull-down, configurable active low/hi).
Outputs	
EVAC out, FAULT out	Potential-free relay output (configurable NO/NC)
8 x GPO	Open collector output (configurable NO/NC)
6 x Loudspeaker out	6 x 100 V / 50 V, 100 W transformer output, 20 kHz AC monitoring with Loopdrive EOL unit.
Audio	
Frequency response	50 Hz – 20 kHz (local BGM) 100 Hz – 12 kHz (message player, network audio compressed)
Input- output latency	< 10 ms (stand-alone system)
Digital audio format	24 kHz sampling, ADPCM compressed
DSP features	HP/LP filter, multi-point parametric EQ delay.
Mechanical	
Dimensions (HxWxD)	80 x 52 x 28 cm
Weight (without batteries)	29 kg (6 channel version)
Housing material	Steel / ABS
IP rating	IP 30
Mounting	Wall mounted box, wall bracket included.

Dimensions in cm



Basic set up EVAC - 12 zones





est. 1979



for a safer world!



www.olympia-electronics.com

European
manufacturer



The company is certified by

APPROVAL
SWISS

Objectively True
ISO 14001, ISO 45001, ISO 9001

F-002-001-GENERAL