Панели

Autroprime

Технические характеристики

Fire Alarm Control Panel - BS-200

Autroprime Interactive Fire Detection System
Product datasheet

Features

- SelfVerify function for automatic testing of detectors
- Automatic setup
- Automatic addressing of detectors
- Two loops
- USB for data transfer to/from memory stick
- User-friendly display and operator controls
- Backlit operating buttons. Text display suitable for night-time operation
- Surface mounting
- Designed to meet EN 54 requirements and conforms to CE standards
- Complies with environmental conditions of IEC-721-3-3 class 3k5

Application/Description

The BS-200 is an integrated fire alarm control panel for small to medium sized installations. The panel serves as a stand-alone panel. A maximum of 8 additional panels can be freely mixed and connected to the Fire Alarm Control Panel via the RS-485 Panel Bus, including Repeater Panels BS-211, Information Panels BV-210, Fire Brigade Panels BU-210 and Mimic Drivers BUR-200.

All alarm handling and system features can be configured, controlled and monitored from the panel.

The panel can accommodate up to a maximum of two detection loops. The loops support most of AutroSafe detectors, several types of I/O devices for monitored outputs, open collector outputs, galvanic isolated inputs and monitored inputs. It has a 5A power module for battery charging, and a built-in emergency battery.

The panel is menu operated on a 8-line display, with 40 characters per line.

The Operator Panel (BS-210), which is an integrated part of the BS-200 panel, can also be mounted separately outside the cabinet.

Capacity	
Maximum number of:	
Detection loops per fire alarm control panel	2
Loop Units per detection loop	127
Loop Units per branch on a detection loop	32
Loop sounders per detection loop	40
Fire Brigade/Information/Repeater Panels and Mimic Drivers per fire alarm control panel	8
Serial ports	1
Ethernet	1
USB host ports	2
Languages supported	15

Indicators

- 8x40 character alphanumeric display
- Alarm, more alarms, Pre-alarm, Remote call, Remote Call Response, Fault, Disabled Function, Supervisory Condition, Test condition, System Fault, Power, Delayed Activation,
- Annunciator Fault, Remote Call Fault, Annunciator Disabled, Remote Call Disabled
- Internal buzzer

Operator Controls

- More Events, Mute Panel, Silence, Reset, Prolong Delay, Activate Outputs
- Keypad with navigational functions (Cancel/Back, Enter, directional keys (arrow up/down and left/right)), Function and Select (MultiSelect) key
- Backlit buttons and text
- Fireman's key

Protecting life, environment and property…

Technical specifications	
Dimensions (mm)	420 x 346 x 140
Weight	9 kg (excluding batteries)
Materials	Steel cabinet, ABS/PC moulded front
Mounting	Surface, flush or rack mounting
Protection class	IEC-529 / IP30
Operating temperature	-15℃ to + 55℃
Storage temperature	- 40℃ to + 70℃
Humidity	0 to 05% non-condensing
Power supply	115/230VAC 3,2A/ 1,6 A + 10% / -15% Frequency: 50/60Hz
Current consumption	200mA at 27VDC
Loops	2
Capacity- loop units	127 per loop
Batteries	2 x 12V= 24V not included, maximum 12 Ah
Communication	Built-in TCP/IP (Ethernet) for Modbus, Serial port

Part number	Description
116-BS-200	Fire Alarm Control Panel

Panel Bus Connection (connector J13 and J14)
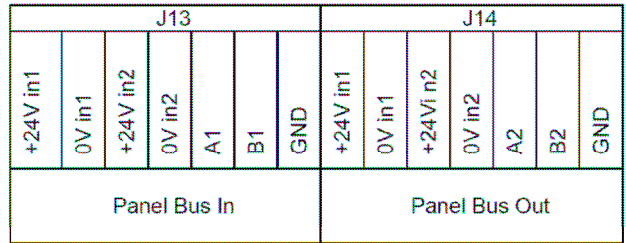
Addressing The Panel

The rotary switch on the rear side of the operator panel (on the left side of the connector J13 and J14) is used to address the panel. The address must be set to 0.

Stand-alone Panel
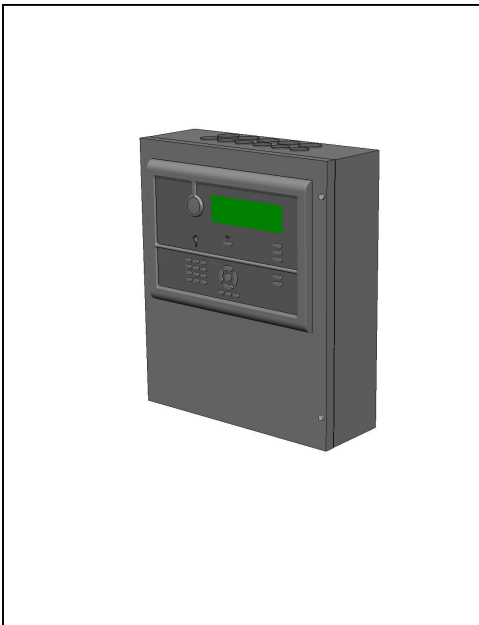
Panels interconnected on the RS-485 Panel Bus
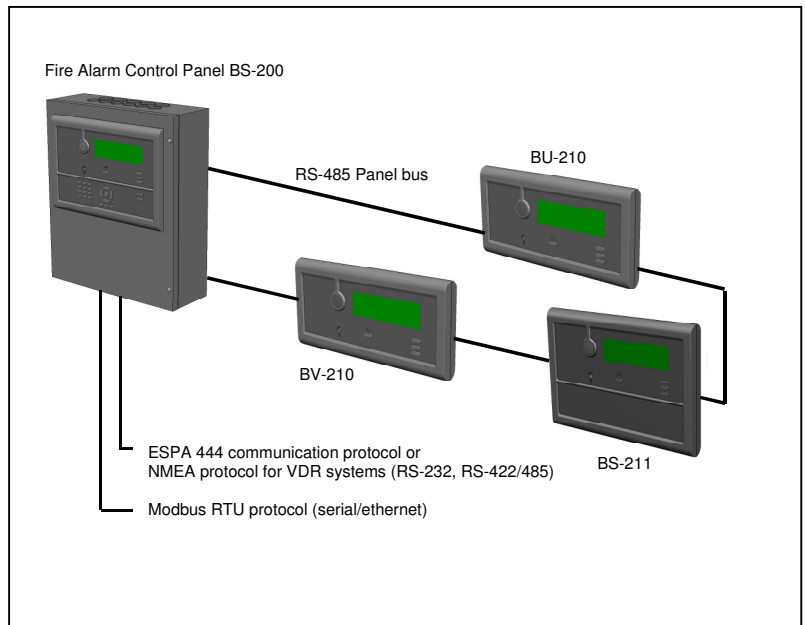
Fire Alarm Control Panel BS-200M

Autroprime interactive fire detection system
Product datasheet

Features

- SelfVerify-function for automatic testing of detectors
- Automatic setup
- Automatic addressing of detectors
- Four loops
- Built in changeover for primary/emergency mains power
- USB for data transfer to/from memory stick.
- User-friendly display and operator controls
- Back-lit operating buttons. Text display suitable for nighttime operation
- Surface mounting. The integrated panel can be mounted separately in a 19'' rack or console
- Designed to meet EN 54 and SOLAS requirements, MED ("wheel-mark") and CPD certified
- Complies with environmental conditions of IEC-721-3-3 class 3k5
- Output to VDR and Modbus
- Printed "Getting started" manual included

Applications/Description

The BS-200M is an integrated Fire Alarm Control Panel for small-to-medium-sized installations. The panel is specifically designed for use in maritime applications and meets the SOLAS requirements. The panel serves as a stand-alone panel. A maximum of 8 additional panels can be freely mixed and connected to the Fire Alarm Control Panel via the RS-485 Panel Bus, including Repeater Panels BS-211, Information Panels BV-210, Fire Brigade Panels BU-210 and Mimic Drivers BUR-200.

All alarm handling and system features can be configured, controlled and monitored from the panel.

The panel can accommodate up to a maximum of four detection loops. The loops support most of AutroSafe detectors, several types of *I/O devices* for monitored outputs, open collector outputs, galvanic isolated inputs and monitored inputs. It has a 5A power module for battery charging.

The panel is menu operated on a 8-line display, with 40 characters per line.

The Operator Panel (BS-210), which is an integrated part of the BS-200M panel, can also be mounted separately outside the cabinet.

Indicators

- 8 x 40-character alphanumeric display
- Alarm, More Alarms, Pre-Alarm, Remote Call, Remote Call Response, Fault, Disabled Function, Supervisory Condition, Test Condition, System Fault, Power, Delayed Activation, Annunciator Fault, Remote Call Fault, Annunciator Disabled, Remote Call Disabled
- Internal buzzer

Operator Controls

- More Events, Mute, Silence, Reset, Block, Activate Outputs
- Keypad with alphanumeric characters and navigational functions (Cancel/Back, Enter, directional keys (arrow up/down and left/right), Function and Select (MultiSelect) key
- Back-lit buttons and text
- Fireman's key

Capacity, maximum number of:	
Detection loops per fire alarm control panel	4
Loop units per detection loop	127
Loop units per branch on a detection loop	32
Loop sounders per detection loop	40
Fire Brigade/Information/Repeater Panels and Mimic Drivers per fire alarm control panel	8
Serial ports	1
Ethernet	1
USB host ports	2
Languages supported	15
Relay outputs	2
Monitored outputs (24 V)	2
Non-monitored outputs (OC)	2
Inputs	4

CE

Technical specifications	
Dimensions (mm)	420 x 346 x 140
Weight	9 kg (excluding batteries)
Materials	Steel cabinet, ABS/PC moulded front
Mounting	Surface, flush or rack mounting
Protection class	IEC-529 / IP32
Operating temperature	-15°C to +70°C
Storage temperature	-40°C to +70°C
Humidity	0 to 95% non-condensing
Power supply	110/230 VAC, +10% / -15% 3,2A/1,6A, Frequency: 50/60Hz
Current consumption	250mA at 115/230 VDC
Loops	4
Capacity – loop units	127 per loop
Batteries	2 x 12V = 24V (not included)
Communication	Built-in TCP/IP (Ethernet) for Modbus, Serial Port

Part number	Description
116-71211548	BS-200M Fire Alarm Panel, 110VAC / 230VAC
116-71211549	BS-200M Fire Alarm Panel, 230VAC
116-71211550	BS-200M Fire Alarm Panel, 110VAC

Factory set outputs:

(For functionality/configuration setup, see "Getting started" manual ch. 7)

- Relay no. 1: Activated at alarm / Off at Reset
- Relay no. 2: Activated at fault / Off at Reset
- Mon. output 1 and 2: Activated at alarm / 2 min. delay / Off at Silence

Additional outputs/inputs (no factory setting):

(For functionality/configuration setup, see "Getting started" manual ch. 7)

- Non-monitored outputs 1 and 2
- Monitored inputs 1 and 2
- Non-monitored inputs 1 and 2

Connections
116-71211549 (230VAC) and
116-71211550 (110VAC)
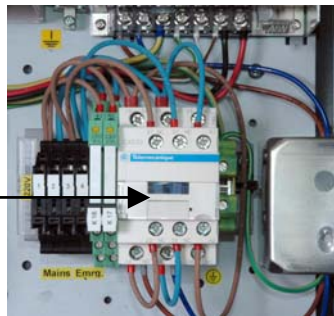
X1

X1	Description
1	Mains 110/230 VAC
2	Mains 110/230 VAC
3	Emergency 110/230 VAC
4	Emergency 110/230 VAC
5	Earth
K15	Change-over Relay
K16	Mains Fault
K17	Emergency Fault
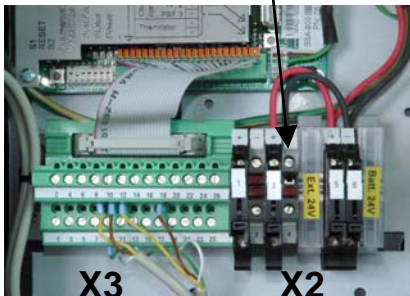
X3 **X2**

X2	Description
1	External 24V +
2	External 24V -
3	External 24V +
4	External 24V -
5	Battery 24V +
6	Battery 24V -

Repeater panel BS-211

Autroprime Interactive Fire Detection System
Product datasheet

Features

- User-friendly display and operator controls
- Backlit operating buttons. Text display suitable for night-time operation
- Surface mounting
- Designed to meet EN-54 requirements, and conforms to CE standards
- Complies with environmental conditions of IEC-721-3-3 class 3k5

Application/Description

Repeater Panel BS-211 is identical (with the exception of an alphanumeric keypad) to the operator panel BS-210, which is an integrated part of the Fire Alarm Control Panel BS-200. All alarm handling and system features can be controlled and monitored from the panel. Configuration is not possible.

The panel is intended for the following purposes:
- Read information on events
- Accept events
- Read events in the log

The panel is menu operated on a 8-line display, with 40 characters per line.
The BS-211 panel communicates with the Fire Alarm Control Panel BS-200, information Panels BV-210, other Repeater Panels BS-211, Fire Brigade Panels BU-210 and Mimic Drivers BUR-200 on an RS-485 panel bus.

Indicators

- 8 x 40 character alphanumeric display
- Alarm, More alarms, Pre-alarm, Remote call, Remote condition, Test condition, System fault, Power, Delayed activation, Annunciator disabled, Remote call disabled
- Internal buzzer

Operator Controls

- More events, Mute panel, Silence, Reset, Prolong delay. Activate outputs
- Keypad with navigational functions (cancel/back, enter, directional keys (arrow up/down and left/right), Function and select (MultiSelect) key
- Back-lit buttons and text
- Fireman's key

Capacity

- A maximum of 8 additional panels can be freely mixed and connected to the Fire Alarm Panel via the RS-485 Panel Bus, including Repeater Panels BS-211, Information Panels BV-210, Fire brigade Panels BU-210 and Mimic Drivers BUR-200

Panel Bus Connection (connector J13 and J14)

J14							J13						
+24V in1	0V in1	+24V in2	0V in2	A1	B1	GND	+24V in1	0V in1	+24V in2	0V in2	A2	B2	GND
Panel Bus In							**Panel Bus Out**						

Addressing the panel

The rotary switch on the rear side of the panel (on the left side of the connector J13 and J14) is used to address the panel (1-9).

$C\epsilon$

Technical specifications	
Dimensions (mm)	310 x 220 x 45
Weight	1,0 kg
Materials	ABS/PC moulded front
Mounting	Surface or rack mounting
Protection class	IEC 529 / IP32
Operating temperature	- 15 °C to + 70 °C
Humidity	0 to 95 % non-condensing
Storage temperature	- 40 °C to + 70 °C
Current consumption	20mA at 27VDC, 300mA at lamp test (start-up)
Power supply	18-30 VDC
Communication	RS-485 panel bus (redundant power bus)

Part number	Description
116-BS-211	Repeater Panel
116-UD-731	Wall mount bracket

Hole dimensions on mounting bracket

Panels interconnected on the RS-485 panel Bus

Fire Alarm Control Panel BS-200

RS-485 Panel bus

BU-210

BV-210

BS-211

ESPA 444 communication protocol or
NMEA protocol for VDR systems (RS-232, RS-422/485)

Modbus RTU protocol (serial/ethernet)

Fire Brigade Panel BU-210

Autroprime Interactive Fire Detection System
Product datasheet

Features

■ User-friendly display and operator controls
■ Backlit operating buttons. Text display suitable for night-time operation
■ Surface mounting
■ Designed to meet EN 54 and LPCB requirements, and conforms to CE standards
■ Complies with environmental conditions of IEC-721-3-3 class 3k5

Application/Description

From the Fire Brigade Panel BU-210 it is possible to mute the panel's internal buzzer, silence sounders/bells etc. and reset the system. Only alarms are shown in the display.

The panel is menu operated on a 8-line display, with 40 characters per line.

The BU-210 communicates with the Fire Alarm Control Panel BS-200, Information Panels BV-210, Repeater Panels BS-211, other Fire Brigade Panels BU-210 and Mimic Drivers BUR-200 on an RS-485 panel bus.

Indicators

■ 8 x 40 character alphanumeric display
■ Alarm, More Alarms, Pre-Alarm, Remote Call, Fault, Disabled Function, Delayed Activation, Power
■ Internal buzzer

Operator Controls

■ More Events, Mute panel, Silence, Reset
■ Backlit buttons and text
■ Fireman's key

Capacity

■ A maximum of 8 additional panels can be freely mixed and connected to the Fire Alarm Control Panel via the RS-485 panel bus, including Repeater Panels BS-211, Information Panels BV-210, Fire Brigade Panels BU-210 and mimic Drivers BUR-200

Panel Bus Connection (connector J13 and J14)

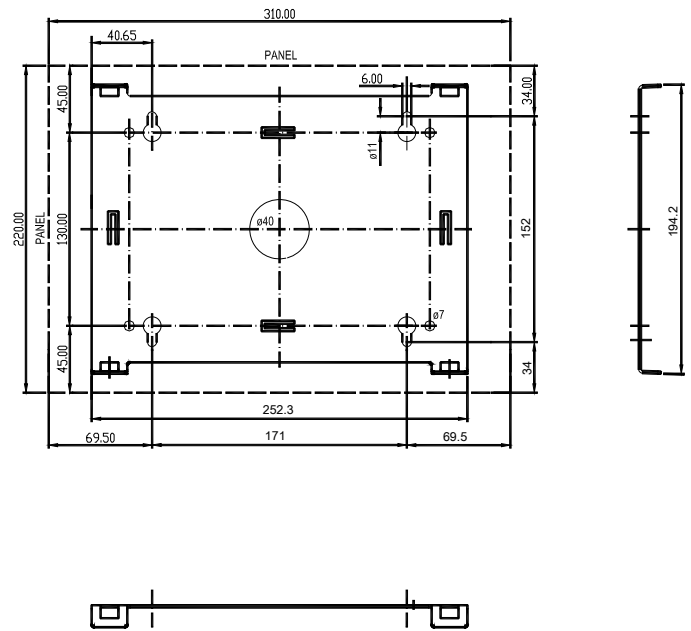| J14							J13						
+24V in1	0V in1	+24V in2	0V in2	A1	B1	GND	+24V in1	0V in1	+24V in2	0V in 2	A2	B2	GND
Panel Bus In							Panel Bus Out						

Addressing the Panel

The rotary switch on the rear side of the panel (on the left side of the connector J13 and J14) is used to address the panel (1-9)
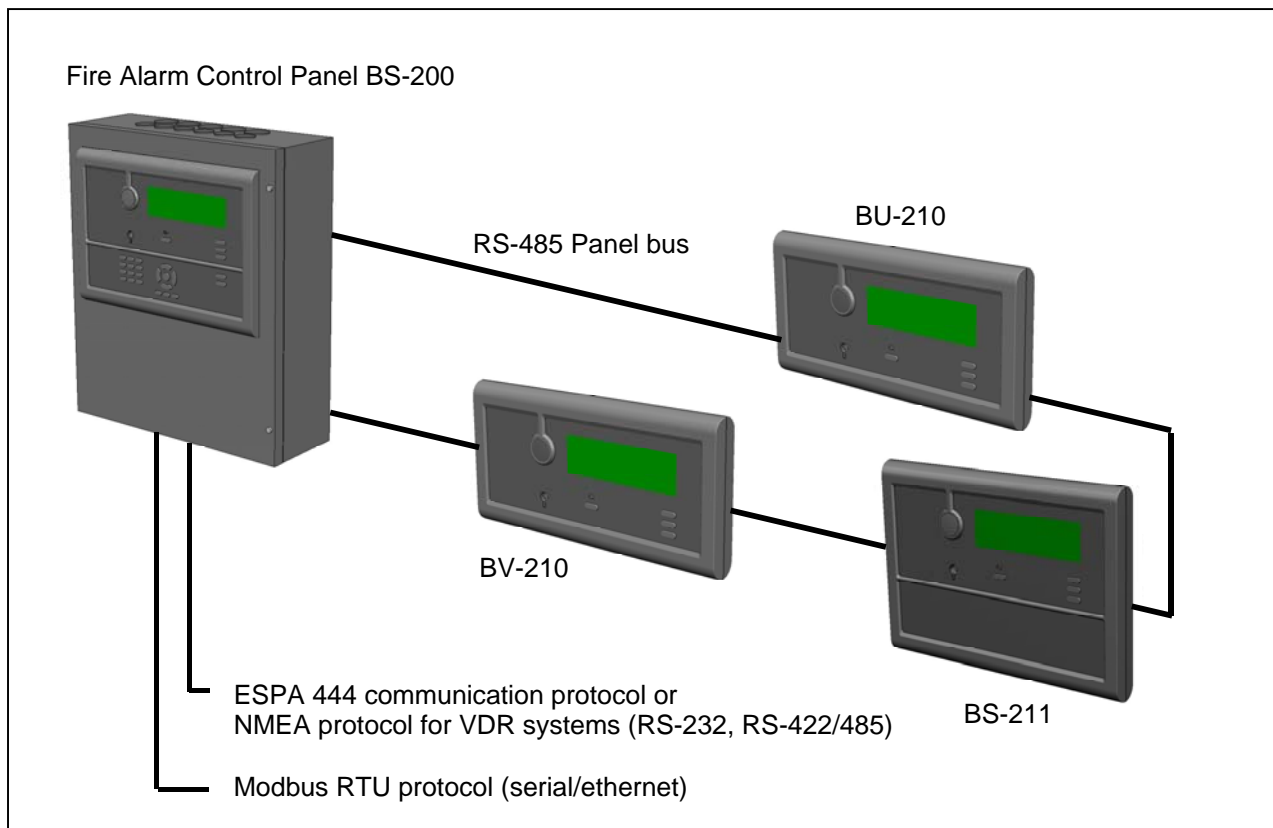
Technical specifications	
Dimensions (mm)	310 x 154 x 45
Weight	0,7 kg
Materials	ABS/PC moulded front
Mounting	Surface
Protection class	IEC 529 / IP32
Operating temperature	- 15 °C to + 70 °C
Humidity	0 to 95 % non-condensing
Storage temperature	- 40 °C to + 70 °C
Current consumption	20 mA at 27 VDC, 300 mA at lamp test (start-up)
Power supply	18-30 VDC
Communication	RS-485 Panel Bus (redundant power bus)
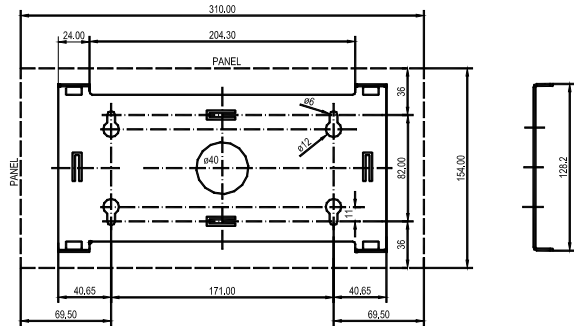
Part number	Description
116-BU-210	Fire Brigade Panel BU-210
116-UD-731	Wall mount bracket

Panels interconnected on the RS-485 Panel Bus

Fire Alarm Control Panel BS-200

BU-210

RS-485 Panel bus

BV-210

BS-211

ESPA 444 communication protocol or
NMEA protocol for VDR systems (RS-232, RS-422/485)

Modbus RTU protocol (serial/ethernet)

Information Panel BV-210

Features

■ User-friendly display and operator controls
■ Back-lit operational keys. Text display suitable for night-time operation
■ Surface mounting
■ Designed to meet EN 54 requirements and conforms to CE standards
■ Complies with environmental conditions of IEC-721-3-3 class 3k5

Application/Description

From the Information Panel BV-210 all alarm handling and system events can be monitored. The most significant events/conditions are shown in the display.

The BV-210 communicates with the Fire Alarm Control Panel BS-200, Repeater Panels BS-211, Fire Brigade panels, other Information Panels BV-210 and Mimic Driver BUR-200 on an RS-485 Panel Bus.

Indicators

■ 8 x 40 character alphanumeric display
■ Alarm, More Alarms, Pre-Alarm, Remote Call, Remote Call Response, Fault, Disabled Function, Supervisory Condition, Test Condition, System Fault, Power
■ Internal buzzer

Operator Controls

■ More Events, Mute Panel

Capacity

■ A maximum of 8 additional panels (including Repeater Panels/Information Panels/Fire Brigade panels) can be connected to the Fire Alarm Control Panel via the RS-485 Panel Bus. One of them can be a Mimic Driver BUR-200.

Panel Bus Connection (connector J13 and J14)

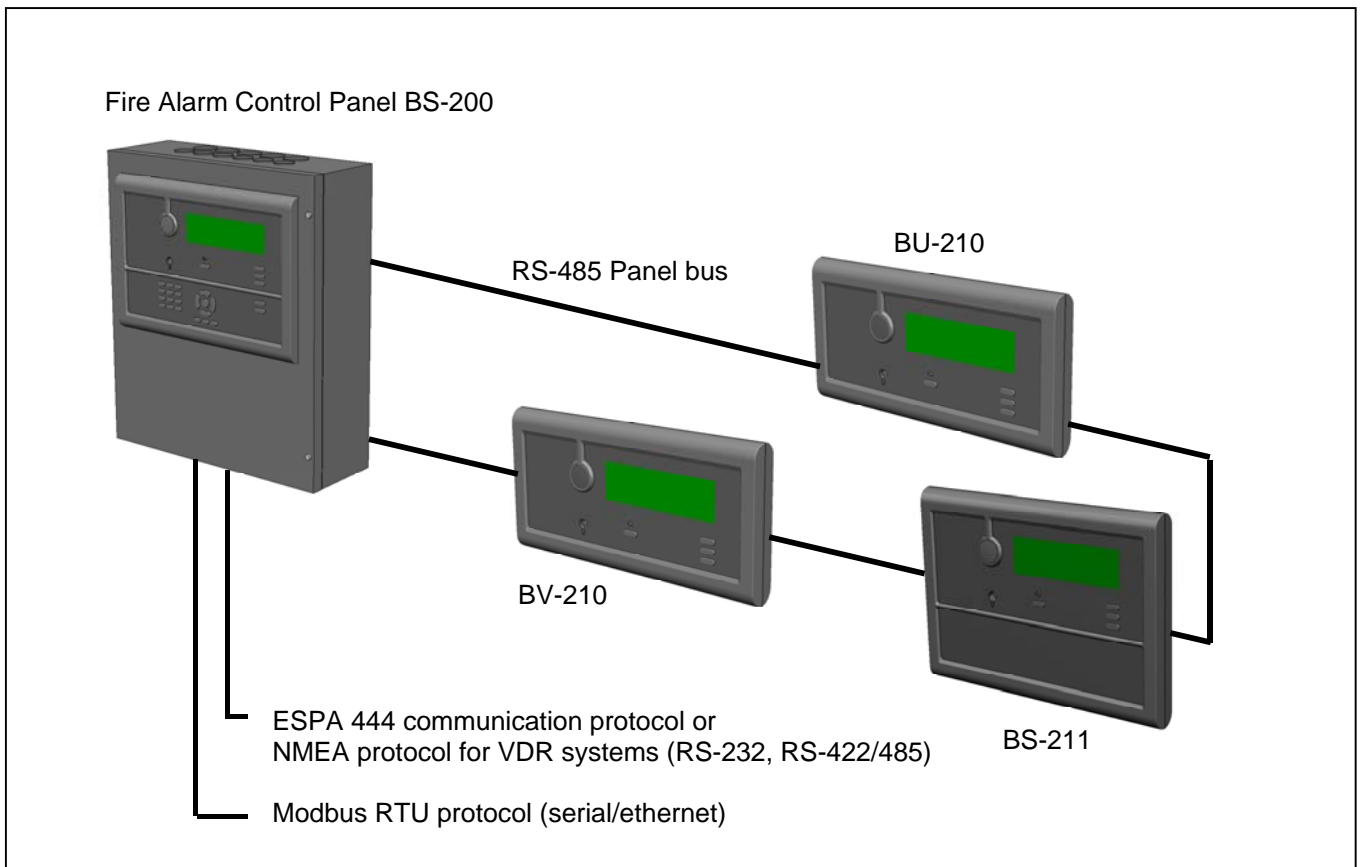| J14							J13						
+24V in1	0V in1	+24V in2	0V in2	A1	B1	GND	+24V in1	0V in1	+24V in2	0V in2	A2	B2	GND
Panel Bus In							Panel Bus Out						

Addressing the Panel

The rotary switch on the rear side of the panel (on the left side of the connector J13 and J14) is used to address the panel (1-9).

Technical specifications	
Dimensions (mm)	310 x 154 x 45
Weight	0,7 kg
Materials	ABS/PC moulded front
Mounting	Surface or rack mounting
Protection class	IEC-529 / IP32
Operating temperature	- 15 °C to + 70 °C
Storage temperature	-40 °C to + 70 °C
Humidity	0 to 95% non-condensing
Current consumption	20 mA at 27 VDC, 300 mA at lamp test (start-up)
Power supply	18-30 VDC
Communication	RS-485 Panel Bus (redundant power bus)

Hole dimensions on mounting bracket
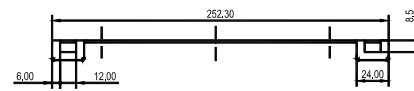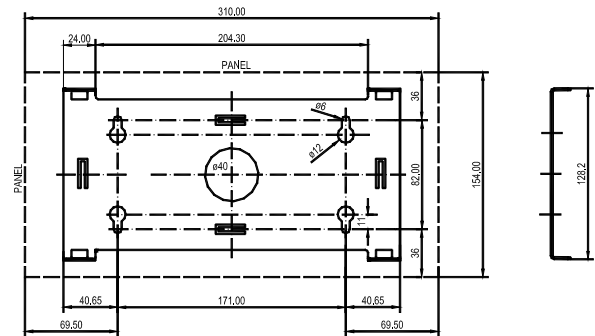
Part number	Description
116-BV-210	Information Panel BV-210
116-UD-731	Wall mount bracket

Panels interconnected on the RS-485 Panel Bus

Fire Alarm Control Panel BS-200

RS-485 Panel bus

BU-210

BV-210

BS-211

ESPA 444 communication protocol or NMEA protocol for VDR systems (RS-232, RS-422/485)

Modbus RTU protocol (serial/ethernet)
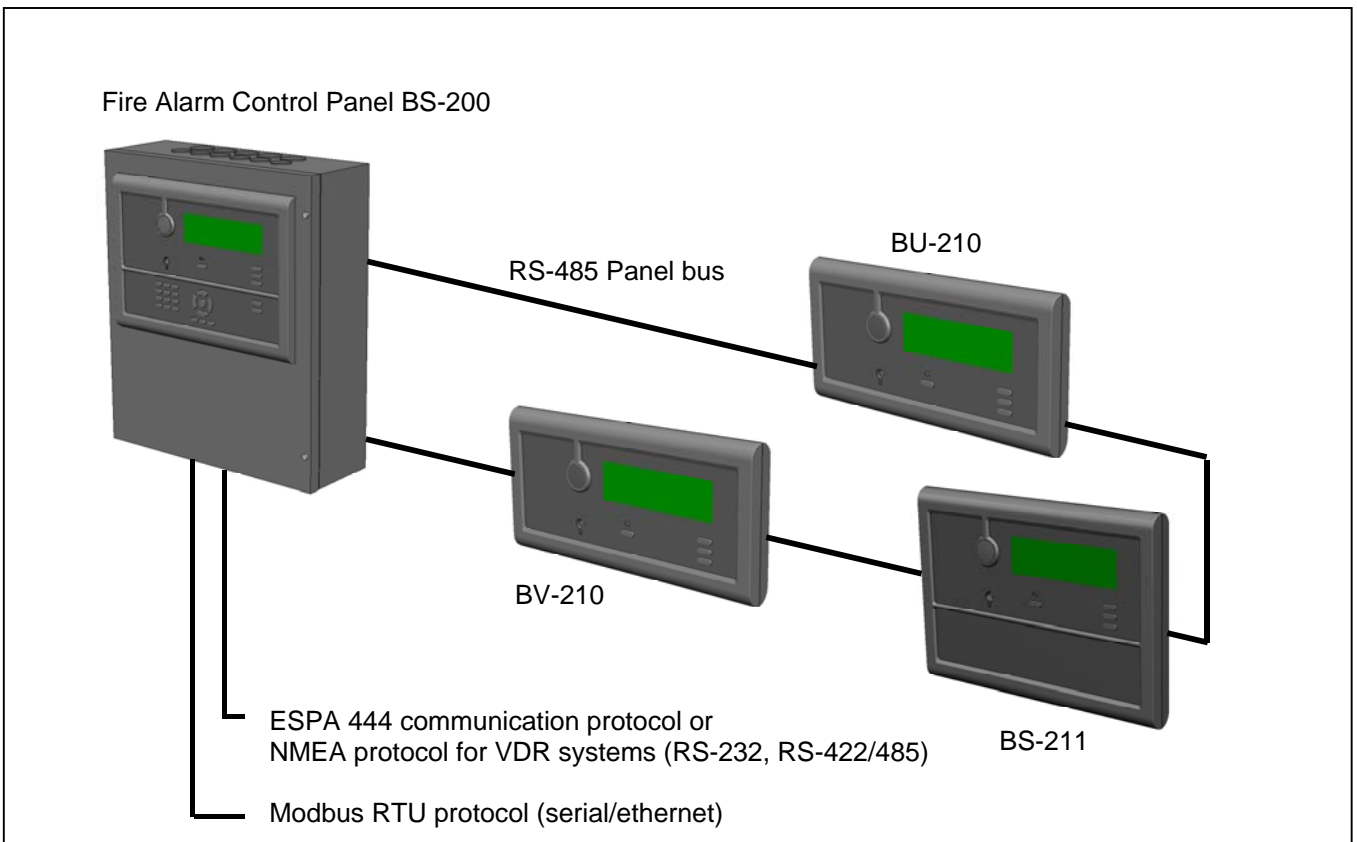
Mimic Driver BUR-200

Autroprime Interactive Fire Detection System
Product datasheet

Features

- 1 Mimic Driver is capable of driving 32 current limited LEDs
- 1 Mimic Driver is provided with 8 standard monitored inputs
- A maximum of 8 Mimic Drivers can be connected to the RS-485 Panel Bus, providing a total of 256 outputs and 64 monitored inputs
- Powered by 24 VDC, redundant, monitored
- Lamp test
- LED intensity control
- Snap-on to DIN rail (TS-35)
- Designed to meet EN 54 and SOLAS requirements, and conforms to CE standards

Application/Description

The BUR-200 is a Mimic Driver hat is capable of driving 32 LEDs with series resistors on a mimic panel for additional indication of alarms. In addition, 8 standard monitored inputs can be used to reading various switches.

The Mimic Driver is connected to the RS-485 Panel Bus.

Power redundancy is achieved by using a daisy-chain connection with master and slave drivers.

Switch Settings

RS-485 termination and board mode switch.

Switch	Description
S2.1	RS-485 3 Failsafe termination (see description below)
S2.2	
S2.3	RS-485 3 Line termination
S2.7	BUR-200 Master/Slave select (ON: Master, OFF: Slave)

Switch Settings Failsafe and line Termination
Master and the last* Slave: The switches S2.1, S2.2 and S2.3 are to be set to ON.
Other Slaves: The switches S2.1, S2.2 and S2.3 are to be set to OFF.

*Refer to connection Overview – Master/Slave Drivers.

X2 Panel Bus Address Switch

If S2.7 is set to Master, X2 sets the panel bus address. If S2.7 is set as a slave, X2 sets the RS-485 daisy-chain slave address. The range for the switch is 1-9.

Technical specifications	
Dimensions (mm)	181 x 125 x 40
Weight	300
Materials	Polyamid / aluminium
Mounting	On DIN-rail (TS-35)
Operating temperature	- 15 °C to + 70 °C
Storage temperature	- 40 °C to + 70 °C
Humidity	0 to 95% non-condensing
Power supply	24 VDC (18-32V)
Current consumption	Maximum 25 mA
Total load BUR-200	Maximum 500 mA
Communication	RS-485 panel bus

Part number	Description
116-BUR-200	Mimic Driver BUR-200

J19		J23	
Outp.1	8	+24V	
Outp.2	7	+24V	
Outp.3	6	+24V	
Outp.4	5	+24V	
Outp.5	4	+24V	
Outp.6	3	+24V	
Outp.7	2	+24V	
Outp.8	1	+24V	
J18		**J22**	Terminals for LED outputs.
Outp.9	8	+24V	
Outp.10	7	+24V	Each output is an open collector which is connected to 0V at activation.
Outp.11	6	+24V	
Outp.12	5	+24V	
Outp.13	4	+24V	Each output has an adjacent terminal for 24V supply to the LED.
Outp.14	3	+24V	
Outp.15	2	+24V	
Outp.16	1	+24V	Max.current per output is 25 mA. Max.total current for all 32 outputs: 500 mA
J17		**J21**	
Outp.17	8	+24V	The LED must have a serial resistor.
Outp.18	7	+24V	LEDs with flying leads and built-in serial resistors are available.
Outp.19	6	+24V	
Outp.20	5	+24V	
Outp.21	4	+24V	
Outp.22	3	+24V	
Outp.23	2	+24V	
Outp.24	1	+24V	
J16		**J20**	
Outp.25	8	+24V	
Outp.26	7	+24V	
Outp.27	6	+24V	
Outp.28	5	+24V	
Outp.29	4	+24V	
Outp.30	3	+24V	
Outp.31	2	+24V	
Outp.32	1	+24V	

Output   Resistor   LED   +24V

J15			
PwrLED+24V	6	Output for Power LED	
PwrLED out	5	Output Resistor LED +24V	
FaultLED+24V	4	Output for Fault LED	
FaultLED out	3	Output Resistor LED +24V	
SpareLED +24v	2	Output for Spare LED	
SpareLED out	1	Not in use	

J13			Terminals for monitored inputs. See Schematics
Inp.4 -	8	**J14**	
Inp.4 +	7	Inp.8 -	
Inp.3 -	6	Inp.8 +	
Inp.3 +	5	Inp.7 -	
Inp.2 -	4	Inp.7 +	
Inp.2 +	3	Inp.6 -	
Inp.1 -	2	Inp.6 +	
Inp.1 +	1	Inp.5 -	
		Inp.5 +	
J12		**Optional functions**	
	7		*1 To enable Light Intensity Control : move jumper 8 to position 2-3 for outputs 1-8
	6		
	5	Light intensity control by pot.meter *1 Light intensity control is enabled as default.	Move jumper 9 to position 2-3 for outputs 9-16 / Move jumper 10 to position 2-3 for outputs 17-24 / Move jumper 11 to position 2-3 for outputs 25-32
	4	Option: Shorting 3 to 4 activates all outputs (Lamp Test)	
	3		
	2	Normally closed. The wires from an external power supply's fault relay output can be connected to 1 and 2, replacing the jumper. A break in this circuit path makes the panel signal a fault in the system. Total loss of power will be signalled in the system as a missing panel.	
	1		

Within J12 section:
- 7 — 0V
- 6 — Potentiometer 1kohm
- 5 — +5V

Connections for Panel Bus

7	6	5	4	3	2	1	7	6	5	4	3	2	1
Inst Gnd	B2	A2	0V	+	0V	+	Inst Gnd	B1	A1	0V	+	0V	+
				24V- 2		24V- 1					24V- 2		24V- 1
BU/BV Mimic Panel Bus IN J5							BU/BV Mimic Panel Bus OUT J4						

Connections for Slave Panels

Out 1		Out 2		RS-485				Inst.
+24V	0V	+24V	0V	A3	B3	A4	B4	Gnd.
9	8	7	6	5	4	3	2	1

Schematics – Terminals for monitored inputs

Input +

Resistor 910 ohm   End resistor 2 kohm

Activation switch

Input -

Connection Overview – Master/Slave Drivers

BUR-200, Master mode (Set by DIP switch)
TuBUS in
TuBUS out
32 out   8 mon in
RS-485 Multidrop
BUR-200, Slave mode Address 1 — 32 out / 8 mon in
BUR-200, Slave mode Address 2 — 32 out / 8 mon in
BUR-200, Slave mode Address 8 — 32 out / 8 mon in

Circuit Board Layout

Mimic Cabinet BUR-200

Autroprime Interactive Fire Detection System
Product Datasheet

Features

- Cabinet including 1 Mimic Driver BUR-200 and 16 programmable relays
- 1 Mimic Driver is capable of driving 32 current limited LEDs
- A Mimic Driver is provided with 8 standard monitored inputs
- A maximum of 8 Mimic Drivers can be connected to the RS-485 Panel Bus, providing a total of 256 outputs and 64 monitored inputs
- Powered by 24V DC, redundant, monitored
- Lamptest
- LED intensity control
- Designed to meet EN 54 and SOLAS requirements, and conforms to CE standards

Application/Description

The *Mimic Cabinet BUR-200* is specifically designed for use in maritime applications. It consists of 1 Mimic Driver BUR-200 and 16 programmable relays.

One Mimic Driver that is capable of driving 32 LEDs with series resistors on a mimic panel for additional indication of alarms. In addition, 8 standard monitored inputs can be used for reading various switches.

The Mimic Driver is connected to the RS-485 Panel Bus (see drawing on next page).

Power redundancy is achieved by using a daisy-chain connection with master and slave drivers.

For detailed information on the Mimic Driver, refer to separate datasheet for BUR-200.


Technical specifications	
Dimensions (mm)	420 x 346 x 140
Weight (g)	8,0 kg
Materials	Steel cabinet
Protection class	IEC-529 / IP30
Operating Temperature	-15°C to +70°C
Storage Temperature	-40°C to +70°C
Humidity	0 to 95% non-condensing
Power supply	24VDC (18-32V)
Current consumption	Maximum 25mA
Total load BUR-200	Maximum 500mA
Communication	RS-485 panel bus

| Part number	Description
116-71211551	BUR-200 Mimic Cabinet
BUR-200 Mimic Cabinet is delivered with the following relays:	
116-7624-030.0002	Relay PLC-RSC-24DC/21-21
116-7624-030.0001	Relay PLC-RSC-24DC/21

Schematics

Note:
2k Ohm resistors must be installed on the monitored inputs J13 and J14. A jumper must be installed between J12-1 and J12-2.
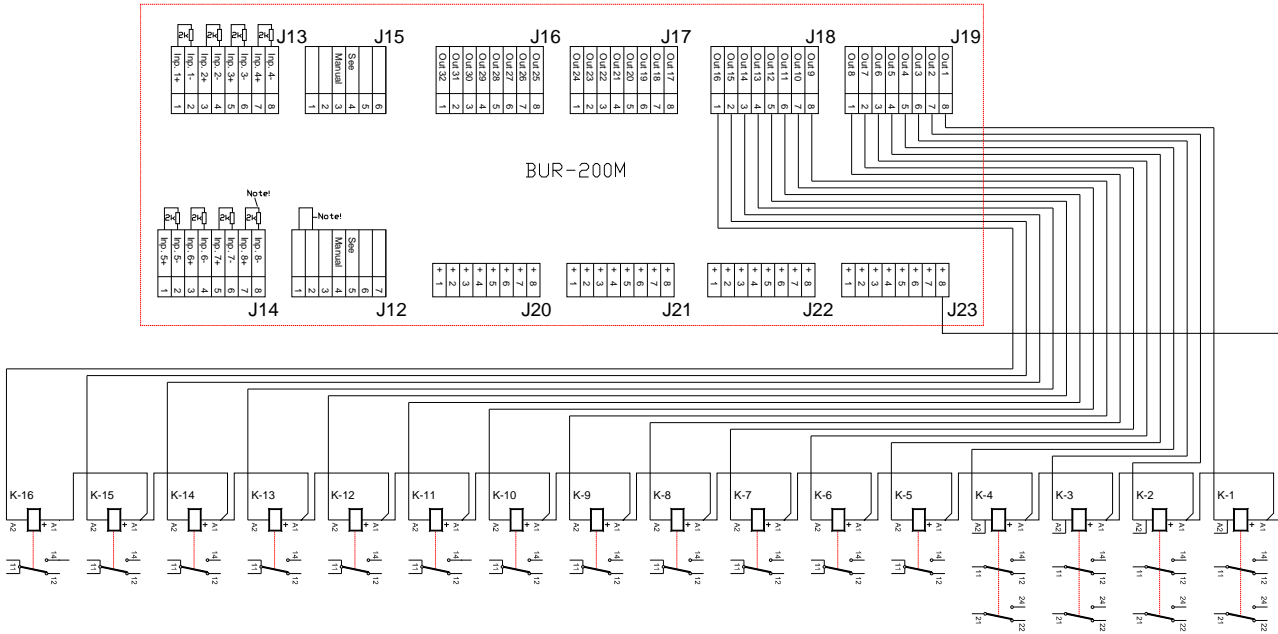
Panel Bus Connection

The drawing below shows an example of a panel bus interconnecting a BUR-200 Mimic Driver, a Fire Alarm Control Panel BS-200M, a Repeater Panel BS-211, and an Information Panel BV-210.
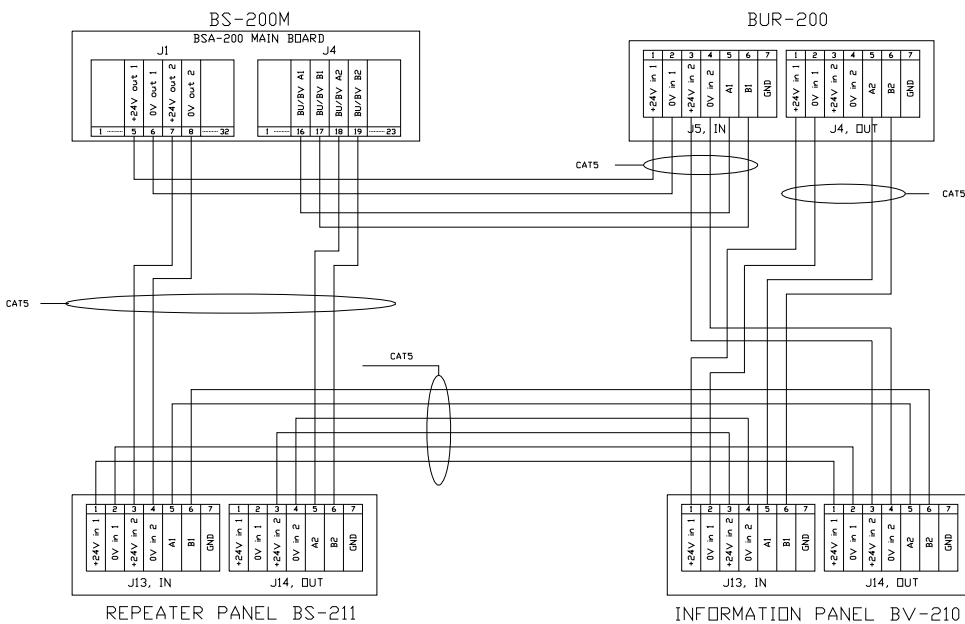
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