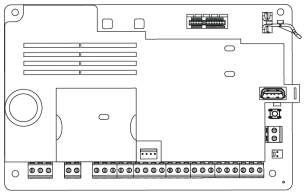
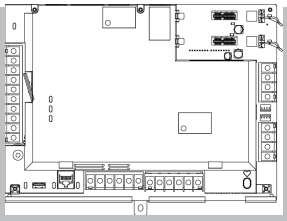
Control Panels

B9512G/B8512G/B6512/B5512/B4512/B3512





en ULC Installation manual

1 ULC Installation Guide

During any ULC installation described within this document, follow all rules for safe installation specified in the CEC (Canadian Electrical Code).

Control panels

Use this guide with the following control panel models (unless otherwise stated) and the model's installation guide:

– B9512G v3.02.006 and higher
– B8512G v3.02.006 and higher
– B6512
– B5512 v3.02.007 and higher
– B4512 v3.02.007 and higher
– B3512 v3.02.007 and higher

The listed control panels are approved as ULC-S559 Fire Alarm Signal Communicators.

Notice!

Control panel mounting

For mounting on the exterior of vault, safe, or stockroom, install a vibration detector (s304, 8.1.5).

Combination ULC-S559 and ULC-S304 control panels

The following control panel models can be configured as combination control panels:

– B9512G v3.02.006 and higher
– B8512G v3.02.006 and higher

When used a combination control panel, Fire and Burg points must reside in separate areas.

Keypads

Use this guide with the following keypad models and the model's installation guide:

– B915/B915I v1.00.017 or higher
– B920 v1.05.004 or higher

Transformers

For transformers, use:

- B9512G, B8512G. Plug-in or hardwire 120 VAC primary, 16.5 VAC 37-40 VA secondary Class 2 Power Limited CSA/cUL listed.
- B6512, B5512, B4512, B3512. Plug-in 120 VAC primary, 18 VAC 22 VA secondary class 2 power limited CSA/cUL Listed. Hardwire 120 VAC primary, 16.5 VAC 40 VA secondary Class 2 Power Limited CSA/cUL listed.

Refer to *Compatible transformers, page 15*.
Install with ULC Listed devices where applicable.

Wiring
Use unshielded cable only.

Bosch Security Systems B.V. product manufacturing dates

Manufacturing dates
For product manufacturing dates, go to http://www.boschsecurity.com/datecodes/ and refer to the serial number located on the product label.

1.1 Requirements

Key:
P = Programmable
R = Required
O = Optional
E = Enable

Requirements	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary
Minimum battery standby	24 hours	24 hours	24 hours	24 hours	4 hours	4 hours
Battery size[1]	B9512G/B8512G/B6512/B5512/B4512/B3512: 1 x 12 V/7 Ah, 1 x 12 V/18 Ah, 2x 12 V/7 Ah: B9512G/B8512G: 2x 12 V/18 Ah[2]					
Entry delay	≤ 45 sec	P	N/A	N/A	≤ 45 sec	≤ 45 sec
Exit delay	≤ 45 sec	P	N/A	N/A	≤ 60 sec	≤ 45 sec
Minimum Bell cutoff time	P	P	5 min	N/A[3]	4 min	N/A
Communicator	E	E	E	E	E	E
AC power	[4]	[4]	[4]	[5]	[4]	[4]
Tamper protection	R	R	O	O	O	R
Enclosures	For compatible enclosures, refer to *Compatibilities, page 9*.					

[1] Select battery capacity based on calculated AUX current consumption for the system, including all accessories.

[2] Do not use 2 x 12 V/18 Ah with a Solex 16.5 VAC 37 VA transformer.

[3] Bell should not sound.

[4] Plug-in transformer, optional hardwired connection.

Requirements	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary
[5] In ULC-S559 applications, the control panel AC input shall be hard-wired in accordance with Sec. 32 of CSA C22.1, Canadian Electrical Code..						

Communication Channel Security (applicable to Commercial Burglary/Financial installations)

Notice!

Active and passive communication

Systems are passive-only communication systems when the only communication method is over PSTN using the B430 module.

Systems that use the on-board Ethernet, B426 module, or a cellular module are active or passive communication systems depending on the programmed poll rates.

Applicable for both IP and cellular communication.

Requirement	Parameter
Supervision interval for IP and Cellular communication is 200 seconds (UL)	Panel Wide Parameters > Enhanced Communications > Receiver Supervision Time set to 200 seconds
Supervision interval for IP and Cellular communication is 180 seconds (ULC)	Panel Wide Parameters > Enhanced Communications > Receiver Supervision Time set to Custom, Poll Rate set to 89, ACK Wait Time set to 15, and Retry Count set to 5

Passive levels*	Transmitters and supervision	Receivers	Risk Levels
P1	For transmitters at the protected premises and supervision of communication channels, refer to the figures in *Fire monitoring communication systems wiring diagrams, page 18*.	D6600 or D6100IPv6	Low
P2			Medium
P3			High
*Test the transmission on each communication channel every 24 hours. The telephone service should be of a type that provides for timed release disconnect. In order to give the digital alarm communicator transmitter (dialer) the ability to disconnect an incoming call to the protected premises.			

Active levels*	Transmitters and supervision	Receivers	Risk Levels	Backup requirements for network equipment
A1	For transmitters at the protected premises and supervision of communication channels, refer to the figures in *Fire monitoring communication systems wiring diagrams, page 18*.	D6600 or D6100IPv6	Low	24 hr standby or dialer as backup
A2			Medium	
A3			High	
A4			Very high	24 hr standby
*Check-in/polling signal required every 180 seconds. For equipment used at the protected premises intended to facilitate communications (hubs, routers, NIM, cable modems) 24-hour backup power is required. Where such cannot be facilitated a secondary (backup) communication channel is required. For using private, corporate, and high speed data networks, network access and domain access policies must restrict unauthorized network access, and “spoofing” or “denial of service” attacks. Select the internet				

Active levels*	Transmitters and supervision	Receivers	Risk Levels	Backup requirements for network equipment
service providers that have redundant servers/systems, backup power, routers with firewalls enabled, and methods to identify and protect against “denial of service” attacks. For using public switched and wireless data networks, communication channels must be facilitated such that the communicator will restrict unauthorized access which could otherwise compromise security.				

Fire Monitoring Communication Systems

Refer to *Wiring, page 15*. The central station receiver must receive fire alarms in 60 seconds and trouble signals in 90 seconds.

Type	Transmitters and supervision	Receivers
Passive[1]	For transmitters at the protected premises and supervision of communication channels, refer to the figures in *Fire monitoring communication systems wiring diagrams, page 18*.	D6600 or D6100IPv6
Active[2]		
[1]Test the transmission on each communication channel every 24 hours. [2]Check-in/polling signal required every 90 seconds. To monitor a complete fire system, each ULC labeled intrusion system must be connected to a ULC labeled fire alarm control panel. The system must transmit system fire alarms, and supervisory and troubles signals to the central station receiver.		

Programming

You must follow the notes in the installation and programming sections describing the system configurations for ULC Listed installations.

Protecting the control panel - Burglary

The local control panel and local power supply must be protected in one of the following ways:

– The control panel and power supply must be located within the area of greatest protection on a tamper protected circuit.
– When arming, each area must arm the area that is protecting the control panel and any external power supply running an audible device. This might require duplicate protection armed by each area. Access to this protected area, without causing an alarm, requires that all areas are disarmed.

Additionally, the protected area for the control panel must be programmed so that it cannot be bypassed, and must be installed in accordance with CAN/ULC-S302 or CAN/ULC-S310.

User information

Inform the users of and note the following in the owner's manual:

– Service organization name and telephone number
– The programmed exit time
– The programmed entry time
– Safety precautions specified for the connected equipment.

1.2 Compatibilities

Accessory compatibility

The following table lists accessories that are compatible with the control panel. An X in a column indicates the accessory is compatible with the standard.

Model number	Description	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary
Keypads							
B915/ B915I*	Basic	X	X	X	X	X	X
B920*	2-line	X	X	X	X	X	X
B921C*[1]	Capacitive			X			X
B925F*	Fire/ Burg	X	X	X		X	X
B926F*	Fire			X			
B930*	ATM style	X	X	X		X	X
B940W	Touch screen	X	X	X		X	X
B942/ B942W*	Touch screen	X	X	X		X	X
Transformers, batteries, power supplies, etc.							
B520	Power supply	X	X	X		X	X
D122/ D122L	Battery harness	Suitable for use on approved applications.					

Model number	Description	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary
D135A	Low-battery disconnect	Suitable for use on approved applications					
D126 (12.0 VDC, 7 Ah)	Battery	Suitable for use on approved applications.					
D1218 (12 V, 18 Ah)	Battery	Suitable for use on approved applications.					
D1640-CA	Transformer	Suitable for use on approved applications in Canada.					
ICP-TR1822-CAN	Transformer	Suitable for use on approved applications in Canada.					
Enclosures							
B10***[2]	Medium	X	X	X	X	X	X
B11[2]	Small	X	X	X	X	X	X
B8103***	Large, white	X	X	X	X	X	X
D8103***	Large, grey	X	X	X	X	X	X

Model number	Description	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary
D8109***	Fire	X	X	X	X	X	X
D8108A***	Attack resistant	X	X	X	X	X	X
Expansion modules							
B208	Octo-input	X	X			X	X
B299	POPEX	X	X	X		X	X
B308	Octo-output	X	X			X	X
B600	ZONEX	X	X	X		X	X
D125B[3]	Dual initiating B	X	X			X	X
D129	Dual initiating A	X				X	X
D192G	NAC	X				X	X
D8125	POPEX	X	X			X	X
D8125MUX	Multiplex	X	X			X	X

Model number	Description	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary
D8128D	OctoPOPIT	X	X			X	X
D8129	Octo-relay	X	X			X	X
D8130	Door release	X				X	X
D9127U/T	POPIT	X	X			X	X
Communicators							
B426	Ethernet	X	X		X	X	X
B430	PSTN	X	X	X	X	X	X
B442[7]	Cellular	X	X	X		X	X
B44x[7]	Cellular	X	X	X	X	X	X
B450	SDI2 adapter	X	X	X	X	X	X
Accessories							
D130	AUX relay	X				X	X

Model number	Description	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary
D132A	Smoke reversing			X		X	
D161	Phone switcher	Suitable for use on approved applications.					
D162	Phone cord	Suitable for use on approved applications.					
ICP-SDI-9114	SDI splitter	X	X			X	X
ICP-EZTS	Tamper	X	X	X		X	X
Door control (Access)							
B901[8]	SDI2 door controller	X	X	X		X	X
D9210C[9]	SDI door controller	X	X			X	X
*Approved for use on combination fire and burg systems when on a different bus from fire devices.							

Model number	Description	CAN/ULC S303 - Local Burglary	CAN/ULC S304 - Signal Receiving Centre and Premise	CAN/ULC S545 - Residential Fire	CAN/ULC S559 - Fire Signal Receiving Centres and Systems	ULC-ORD C1023 - Household Burglary	ULC-ORD C1076 - Proprietary Burglary

**Combination fire and burg systems using SDI devices might require an ICP-SDI-9114 to separate fire and intrusion devices onto separate circuits.
***In ULC-S559, the enclosure is certified for use with B9512G/B8512G only.
[1]ULC listed for Proprietary Burglary and Residential Fire only.
[2]B6512/B5512/B4512/B3512 only.
[3]Refer to the Dual Class B Initiating Module (D125B) Installation Instructions (P/N: F01U036340) for compatible D125B devices.
[4]Refer to the section within this section for compatible RADION devices.
[5]Refer to the section within this section for compatible Inovonics devices.
[7]Check for availability in your region.
[8]B9512G/B8512G/B6512 only.
[9]B9512G/B8512G only.

1.3 Wiring

Notice!
When used in ULC-S559 installations, B6512/B5512/B4512/B3512 control panels must have keypads installed in the same room within 18 m and in metallic conduit.
B9512G and B8512G control panels are not required to have keypad installed in the same room within 18 m.

- For B6512/B5512/B4512/B3512 control panels, refer to the D135A Installation Guide (P/N: 4998122704) for instructions.

Compatible transformers
Use one of the following transformers when wiring the system.

Manufacturer	Model	B9512G	B8512G	B6512	B5512	B4512	B3512
Bosch	ICP-TR1640-CAN	X	X				
Bosch	ICP-TR1822-CAN			X	X	X	X
Bosch	D1640-WI	X	X	X	X	X	X
Solex*	TRI-WIT 1637C	X	X				
*When using this transformer the max current of the control panel is reduced to 1.0 A and battery back up is reduced to 18 Ah.							

1.3.1 Input point wiring diagrams

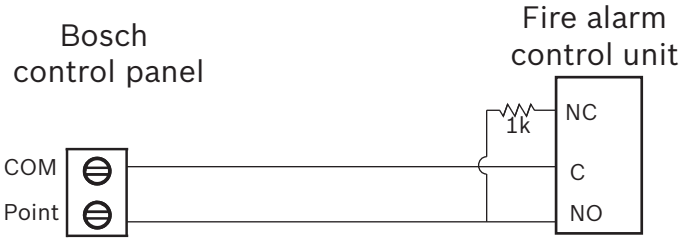
Required control panel-to-fire alarm panel wiring

Wire three control panel points to the fire control panel outputs. Recommended: Wire as described in this section and follow the specific instructions for each point in *Programming, page 25*

Notice!

Removable terminals

For FACP units with detachable terminals, wire the FACP points as Form C relays.



Wire control panel point 1 to the fire control panel's alarm output.

Wire control panel point 2 to the fire control panel's trouble output.

Wire control panel point 3 to the fire control panel's supervisory output.

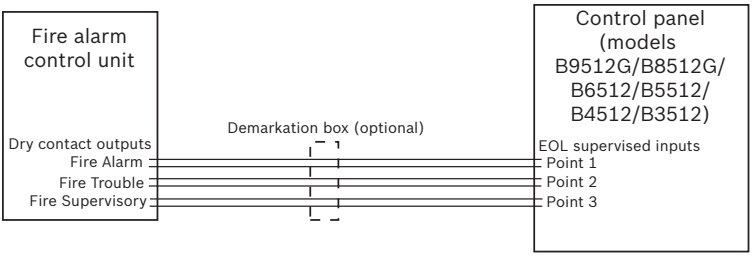


Figure 1.1: Fire alarm control unit dry contact outputs to control panel points 1, 2, and 3

ULC Listed seismic detector

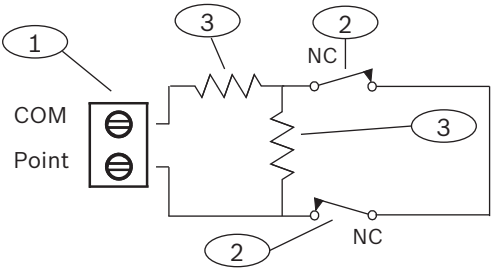


Figure 1.2: ULC Bank Safe and Vault installation

ULC commercial motion detector with tamper

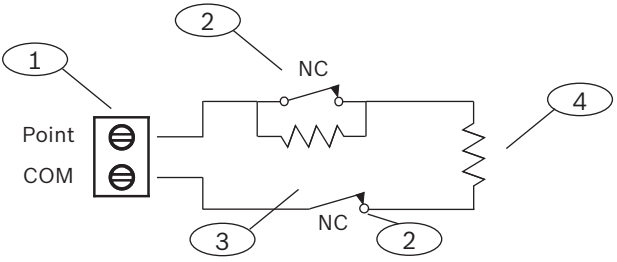


Figure 1.3: Double EOL input

ULC commercial door/window contact (1)

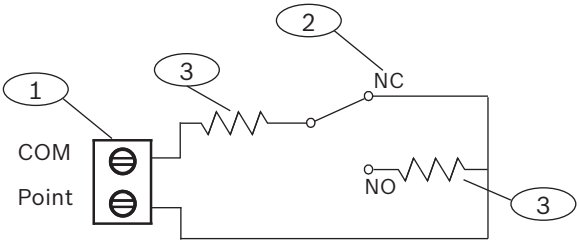


Figure 1.4: Double EOL input for one Form C contact

Callout — Description
1 — Point sensor loop terminals
2 — Normally closed device (contact)
3 — EOL Resistor – 1.0 kΩ (2.0 kΩ and No EOL optional) at device

1.3.2 Fire monitoring communication systems wiring diagrams

These wiring diagrams are also representative for Commercial Burglary Monitoring applications.

Notice!

ULC-S559 communication requirements

Passive systems must send alarm signals over both communication devices programmed as primary.

All non-PSTN systems must send reports to the central station using encryption.

Notice!

ULC-S559 for passive systems allows for any compatible communication devices to be used in tandem for the communication system (per section 5.4.2 of S559-13) with the exceptions of S559-13, section 5.4.1. Where passive communication systems are used, there shall be two or more separate communication channels and at least two of the passive communication channels shall use non-interdependent types of communications. A communication channel is a path extending from the protected premises.

Exception: If only one type of passive communication is available at the protected premises, there shall be two channels provided. Separate paths throughout the protected premises and through any common carrier or third party communications network to the fire signal receiving center shall be provided for each communication channel.

Dual dialer passive communication system

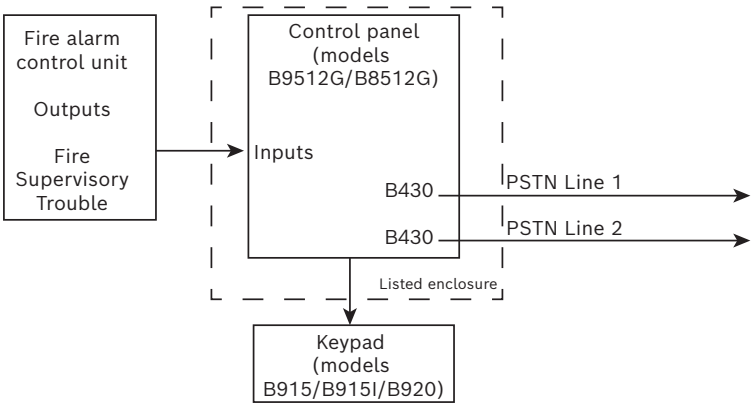


Figure 1.5: Control panel with 2 B430 (PSTN) modules

NOTE: Use of 2 B430 modules is permitted only when no other technologies are available.

IP communication systems (on-board IP)

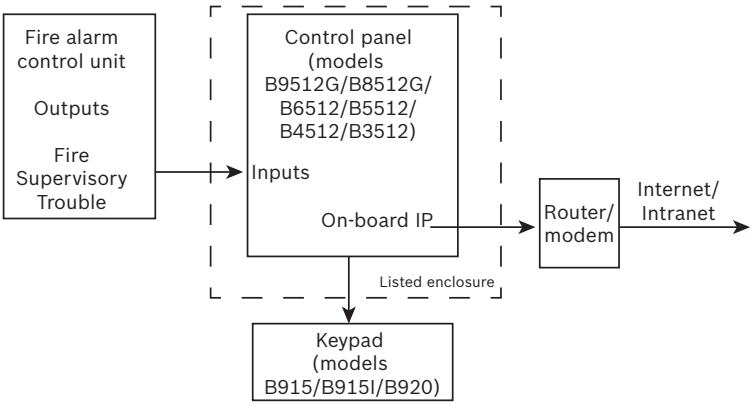


Figure 1.6: Control panel with on-board IP

PSTN/IP communication system (on-board IP)

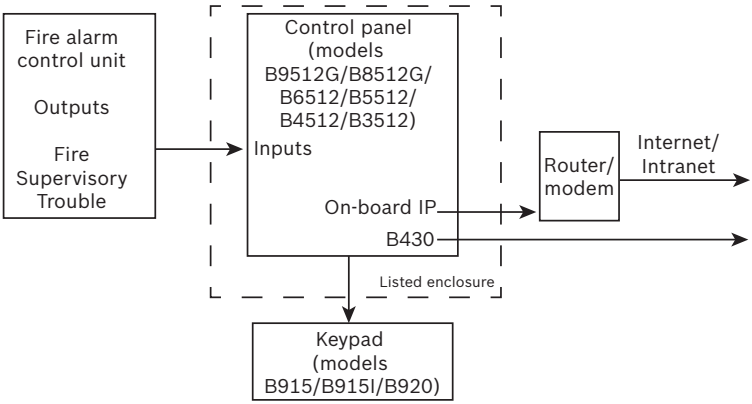


Figure 1.7: Control panel with on-board IP and a 430 (PSTN) module

Cellular communication system

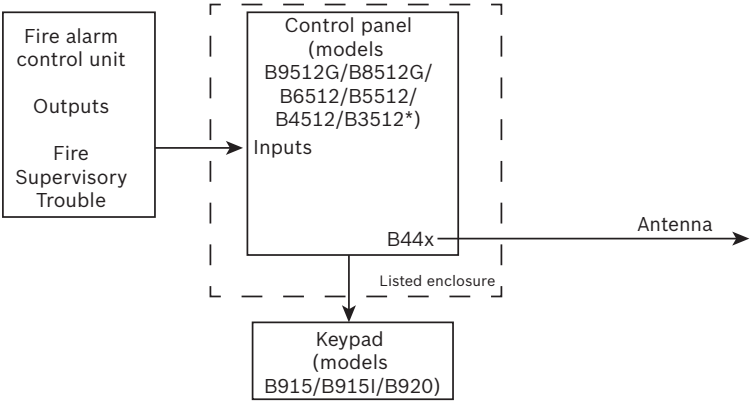


Figure 1.8: Control panel* with a B44x (cellular) module

Cellular/IP communication system (on-board IP)

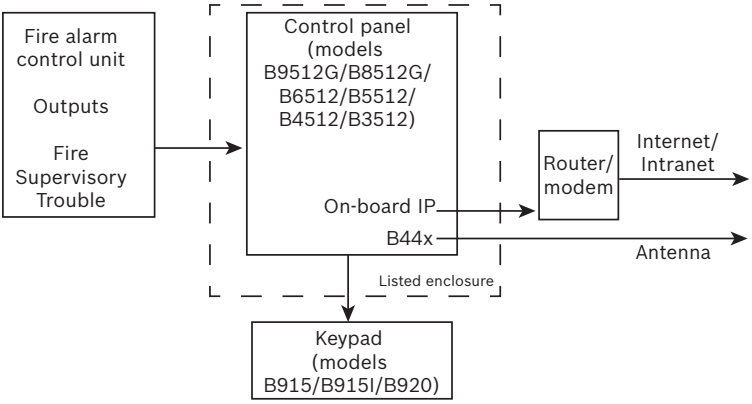


Figure 1.9: Control panel with on-board IP and a B44x (cellular) module

PSTN/cellular communication system

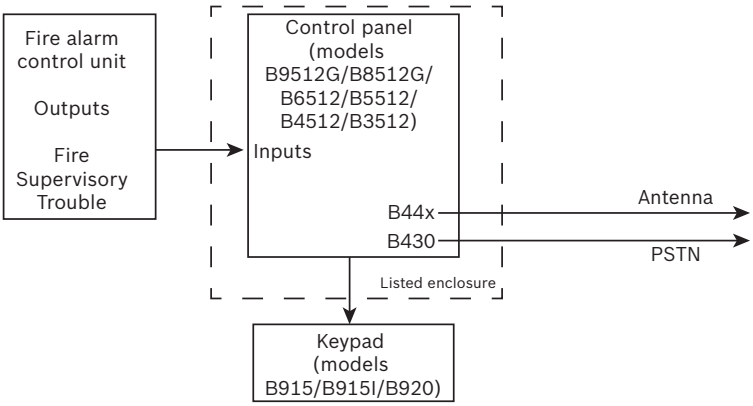


Figure 1.10: Control panel with a compatible cellular module and a 430 (PSTN) module

PSTN/cellular communication system (SDI2 cellular)

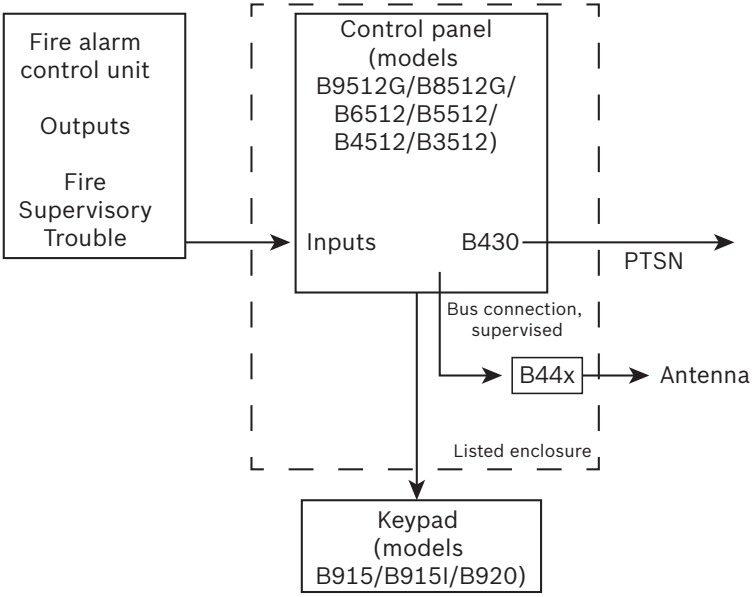


Figure 1.11: Control panel with a B44x module and a B430 (PSTN) module

Off-board cellular passive communication system - detailed wiring G Series

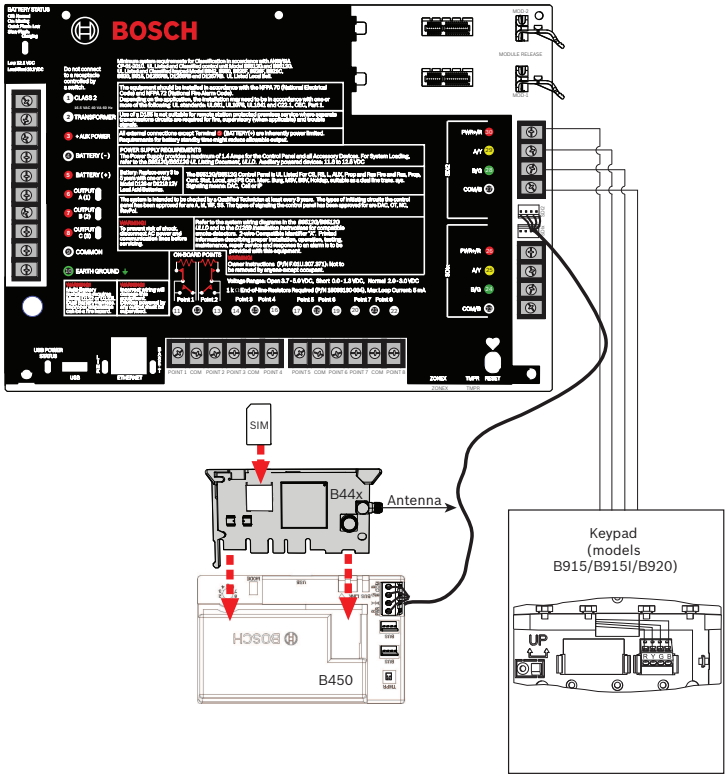


Figure 1.12: B9512G/B8512G* control panel with a B44x (cellular) module connected through a B450 module

Off-board cellular passive communication system - detailed wiring B Series

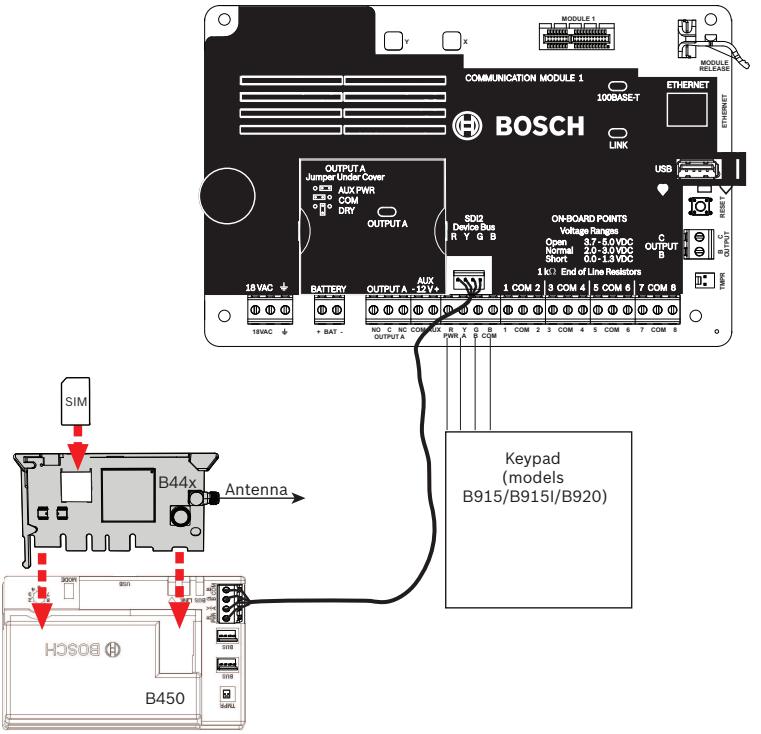


Figure 1.13: B6512/B5512/B4512/B3512* control panel with a B44x (cellular) module connected through a B450 module

1.3.3 B Series sounder wiring diagram

For B6512/B5512/B4512/B3512 control panels, use a ULC Listed, 12 VDC (100 mA maximum) sounder connected to output 1.

Configure OUTPUT A to AUX PWR using the jumper.

Wire a 12 VDC (100 mA maximum) sounder to OUTPUT A.

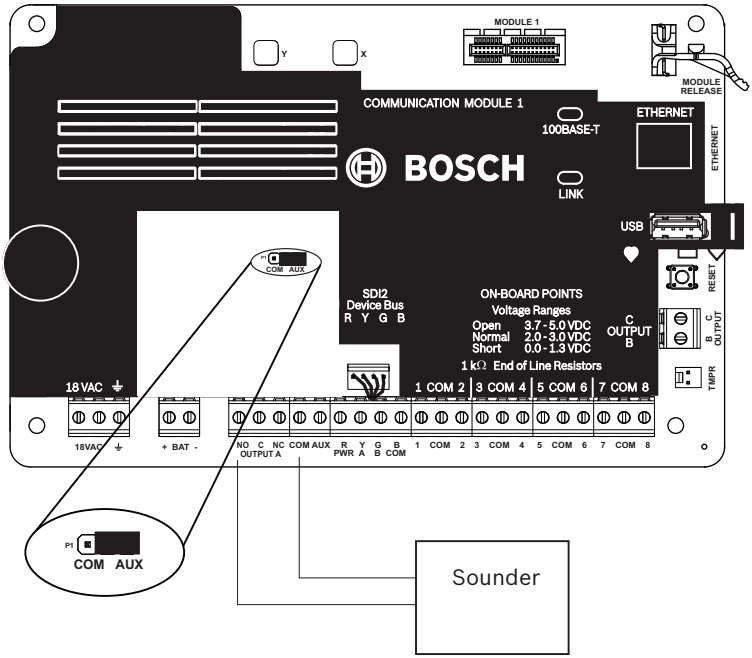


Figure 1.14: B6512/B5512/B4512/B3512 control panel sounder wiring and hardware configuration

1.4 Keypad segment test

You can test B915/B915I and B920 keypads to ensure that the LEDs and display are working.

- ▸ To test a keypad, simultaneously press and hold the [NEXT]/[▼] and [3] keys for 3 seconds.
- ✓ The segment test lights the LEDs and the display.

NOTE: During the segment test, the B915/B915I reports a missing trouble.

1.5 Programming

Complete the programming steps in this section for ULC compliance.

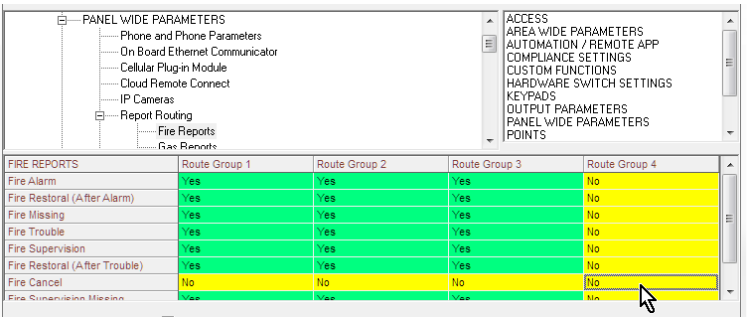
1.5.1 Required programming

COMPLIANCE SETTINGS > UL Canada Compliance

Set the COMPLIANCE SETTINGS > UL Canada Compliance parameter to Yes.

PANEL WIDE PARAMETERS > Report Routing > Fire Reports > Fire Cancel

Set the PANEL WIDE PARAMETERS > Report Routing > Fire Reports > Fire Cancel parameter for each Route Group (1 to 4) to No.



FIRE REPORTS	Route Group 1	Route Group 2	Route Group 3	Route Group 4
Fire Alarm	Yes	Yes	Yes	No
Fire Restoral (After Alarm)	Yes	Yes	Yes	No
Fire Missing	Yes	Yes	Yes	No
Fire Trouble	Yes	Yes	Yes	No
Fire Supervision	Yes	Yes	Yes	No
Fire Restoral (After Trouble)	Yes	Yes	Yes	No
Fire Cancel	No	No	No	No

Figure 1.15: Fire Cancel

POINTS > Point Profiles (Point Indexes)

Configure Point Profiles 1, 4, and 6 as shown below.
It is important to configure the parameters in order.

Point Profile 1

Set Alarm Abort to: No.
Set Point Profile Text (First Language) to: Fire Panel Trouble.
Set Point Type / Response / Circuit Style > Point Type to: Fire Point.
Set Point Type / Response / Circuit Style > Circuit Style to: Single EOL (1KΩ) or Single EOL (2KΩ).
Set Response to: 3.

Point Profile 4

Set Point Profile Text (First Language) to: Fire Panel Alarm.
Set Point Type / Response / Circuit Style > Point Type to: Fire Point.

Set Point Type / Response / Circuit Style > Circuit Style to: Single EOL (1KΩ), Single EOL (2KΩ), or Dual EOL.
If you set Point Type / Response / Circuit Style > Circuit Style to Single EOL (1KΩ) or Single EOL (2KΩ), set Response to: 1.
If you set Point Type / Response / Circuit Style > Circuit Style to Dual EOL, set Response to: 0.

Point Profile 6

Set Point Profile Text (First Language) to: Fire Panel Supervisory.
Set Point Type / Response / Circuit Style > Point Type to: Fire Point.
Set Point Type / Response / Circuit Style > Circuit Style to: Single EOL (1KΩ), Single EOL (2KΩ), or Dual EOL.
If you set Point Type / Response / Circuit Style > Circuit Style to Single EOL (1KΩ) or Single EOL (2KΩ), set Response to: 9.
If you set Point Type / Response / Circuit Style > Circuit Style to Dual EOL, set Response to: 2.

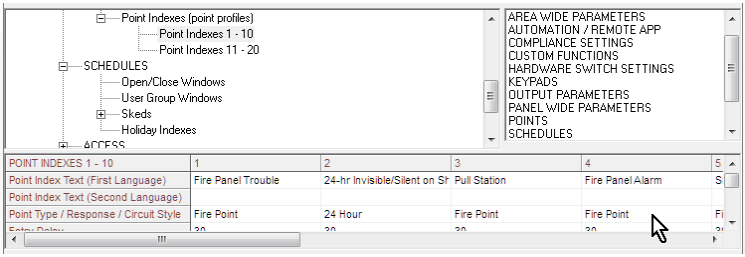


Figure 1.16: Point Profiles

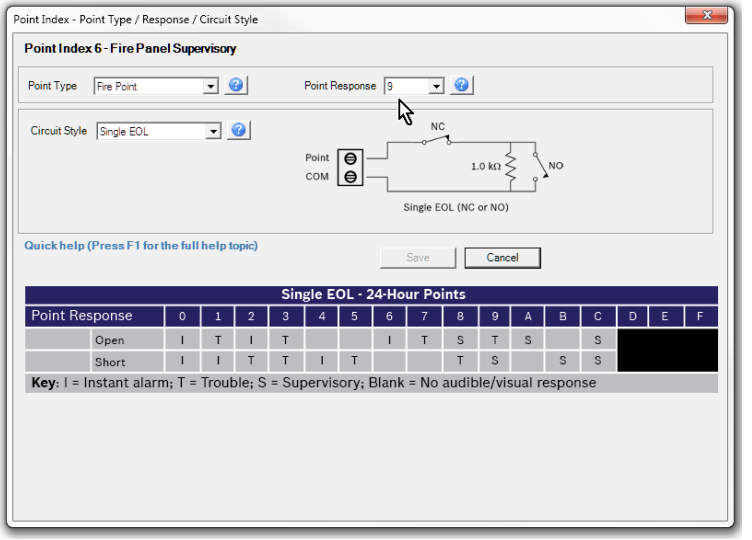


Figure 1.17: Point Type Response and Circuit Style

POINTS > Point Assignments

Set the POINTS > Point Assignments, Text and Profile parameters, for on-board points 1, 2, and 3 as follows.

Point 1

Set Point Assignments > Text to: Fire Panel Alarm.
Set Point Assignments > Profile to: 4 - Fire Panel Alarm

Point 2

Set Point Assignments > Text to: Fire Panel Trouble.
Set Point Assignments > Profile to: 1 - Fire Panel Trouble

Point 3

Set Point Assignments > Text to: Fire Panel Supervisory.
Set Point Assignments > Profile to: 6 - Fire Panel Supervisory

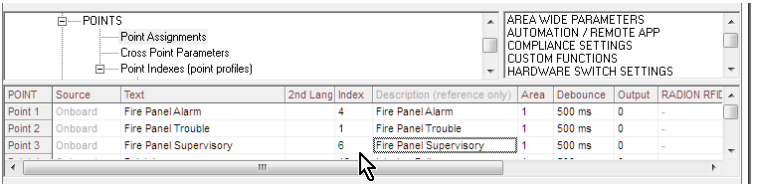
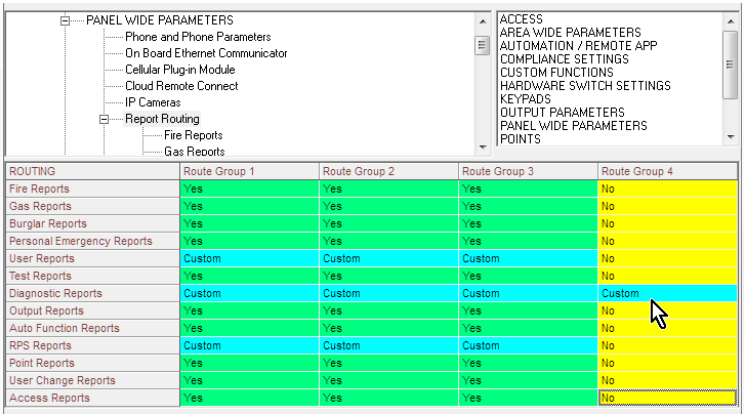


Figure 1.18: Fire Panel Supervisory

PANEL WIDE PARAMETERS > Report Routing

In the Route Group 4 column:

- Set Fire Reports, Gas Reports, Burglar Reports, Personal Emergency Reports, User Reports, and Test reports to No.
- Set Output Reports, Auto Function Reports, RPS Reports, Point Reports, User Change Reports, and Access Reports to No.
- Verify Diagnostic Reports is set to Custom. The next steps configure the Custom settings.



ROUTING	Route Group 1	Route Group 2	Route Group 3	Route Group 4
Fire Reports	Yes	Yes	Yes	No
Gas Reports	Yes	Yes	Yes	No
Burglar Reports	Yes	Yes	Yes	No
Personal Emergency Reports	Yes	Yes	Yes	No
User Reports	Custom	Custom	Custom	No
Test Reports	Yes	Yes	Yes	No
Diagnostic Reports	Custom	Custom	Custom	Custom
Output Reports	Yes	Yes	Yes	No
Auto Function Reports	Yes	Yes	Yes	No
RPS Reports	Custom	Custom	Custom	No
Point Reports	Yes	Yes	Yes	No
User Change Reports	Yes	Yes	Yes	No
Access Reports	Yes	Yes	Yes	No

Figure 1.19: Report Routing

PANEL WIDE PARAMETERS > Report Routing > Diagnostic Reports

For the Route Group 4 column, set SDI2 Device Failure to Yes. Set the remaining reports to No.

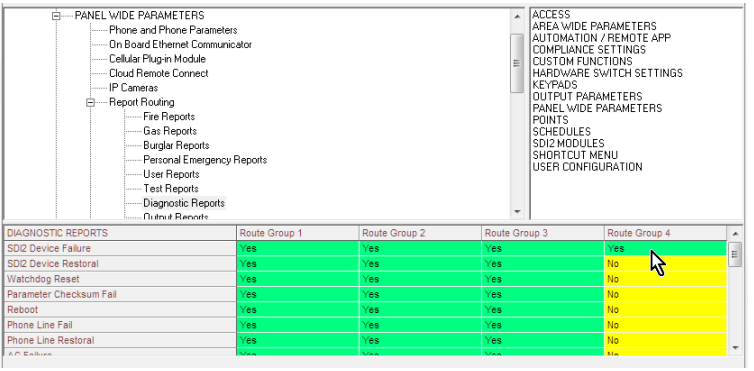


Figure 1.20: SDI2 Device Failure

PANEL WIDE PARAMETERS > Communicator > Primary Destination Device

For the Route Group 4 column, set Primary Destination Device to Destination 4 for the type of device in use (for example, Onboard IP, Destination 4 if the control panel sends reports using the on-board Ethernet.

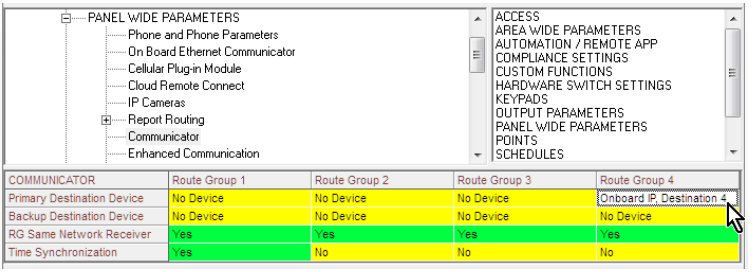


Figure 1.21: Primary Destination Device

PANEL WIDE PARAMETERS > Enhanced Communication > Destinations

In the Destination 4 column, set Network Address to: 0.1.1.1 (this address is intentionally not a real address on the network). Set the following:

– Poll Rate (sec.): 0
– ACK Wait Time (sec.): 5

If any of the Route Group Destination Devices include a B444-A Cellular Communicator, configure those destinations as shown in the figure below, Destination 1. Set the following:

– Receiver Supervision Time: Custom
– Poll Rate (sec.): 60
– ACK Wait Time (sec.): 5
– Retry Count: 3

Enhanced Communication	Destination 1	Destination 2	Destination 3	Destination 4
Reporting Format	Conettix: Modem4	Conettix: Modem4	Conettix: Modem4	Conettix: Modem4
Receiver	N/A	N/A	N/A	N/A
Network Address	192.168.0.11			0.1.1.1
Port Number	7700	7700	7700	7700
Receiver Supervision Time	Custom	Custom	Custom	Custom
Poll Rate (sec.)	60	0	0	0
ACK Wait Time (sec.)	5	300	300	5
Retry Count	3	5	5	0
AES Key Size	No Encryption	No Encryption	No Encryption	No Encryption
AES Encryption Key	<Default>	<Default>	<Default>	<Default>

Figure 1.22: Enhanced Communication parameters

1.5.2 Recommended programming

AREA WIDE PARAMETERS > Area Name Text > Area 1
For ease of identification, name the AREA WIDE PARAMETERS > Area Name Text > Area 1 parameter FIRE AREA.

Control panel silencing of fire alarm panel alarm, trouble, and supervisory events

When control panels are configured as described below, they automatically silence keypads connected to the control panel for fire, trouble, and supervisory events from the fire panel.

Notice!

Automatic silence not available for B3512 control panels

Automatic silencing of fire alarm panel alarm, trouble, and supervisory events is not available for the B3512 control panel. Users must silence these events at the keypad.

CUSTOM FUNCTIONS > Custom Function 128

Set Custom Function 128 > Custom Function Text to: Silence.

Set Custom Function 128 > Function 1 to: Trouble Silence (set Parameter 1 to: Area 1).

Set Custom Function 128 > Function 2 to: Alarm Silence (set Parameter 1 to: Area 1).

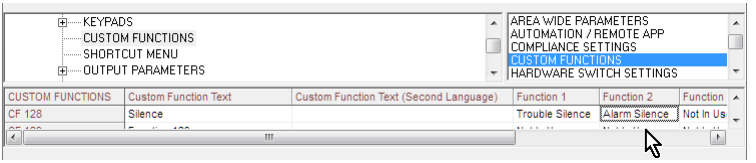


Figure 1.23: Custom Function 128

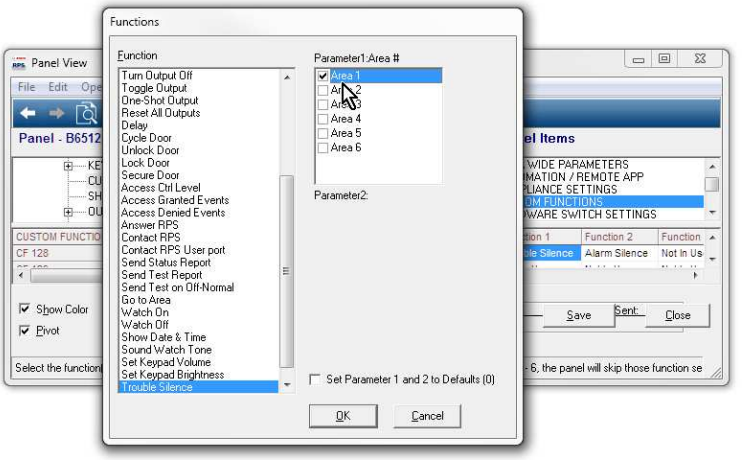


Figure 1.24: Area 1 selection

OUTPUT PARAMETERS > Panel Wide Outputs

For virtual outputs:

Set Panel Wide Outputs > Summary Fire to: 9.

Set Panel Wide Outputs > Summary Fire Trouble to: 10.

Set Panel Wide Outputs > Summary Supervisory Fire to: 19.

Figure 1.25: Panel Wide Outputs

POINTS > Point Profiles (Point Indexes)

Configure Point Profile 20 as shown below.

It is important to configure the parameters in order.

Point Profile 20

Set Point Profile Text (First Language) to: CF: Silence.

Set Point Type / Response / Circuit Style > Point Type to: Custom Function.

Leave Point Type / Response / Circuit Style > Circuit Style at the default: Single EOL (1KΩ).

Leave Point Type / Response / Circuit Style > Response at the default: 7.

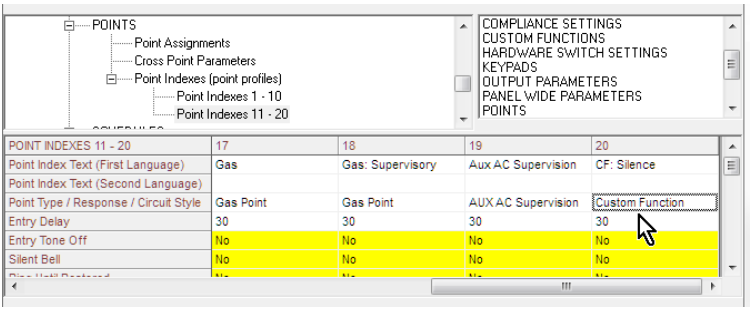


Figure 1.26: Point Profile 20

POINTS > Point Assignments

Set the POINTS > Point Assignments, Source, Text, and Profile parameters, for points 9, 10, and 19 as follows.

Point 9

Set Point Assignments > Source to: Ouput.

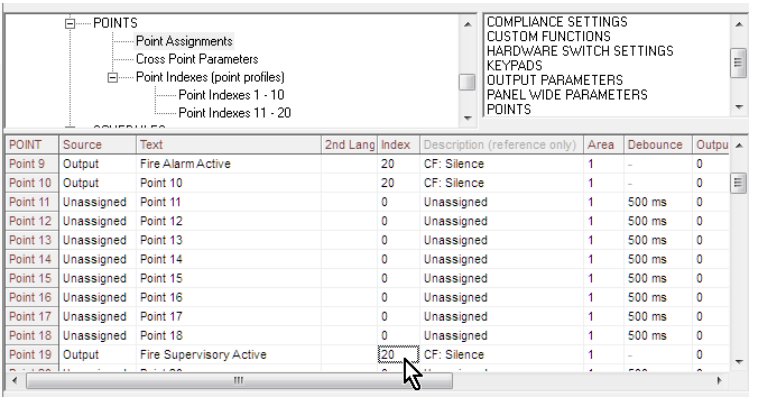
Set Point Assignments > Text to: Fire Alarm Active.
Set Point Assignments > Profile to: 20 - CF: Silence

Point 10

Set Point Assignments > Source to: Ouput.
Set Point Assignments > Text to: Fire Trouble Active.
Set Point Assignments > Profile to: 20 - CF: Silence

Point 19

Set Point Assignments > Source to: Ouput.
Set Point Assignments > Text to: Fire Supervisory Active.
Set Point Assignments > Profile to: 20 - CF: Silence



POINT	Source	Text	2nd Lang	Index	Description (reference only)	Area	Debounce	Outpu
Point 9	Output	Fire Alarm Active		20	CF: Silence	1	-	0
Point 10	Output	Point 10		20	CF: Silence	1	-	0
Point 11	Unassigned	Point 11		0	Unassigned	1	500 ms	0
Point 12	Unassigned	Point 12		0	Unassigned	1	500 ms	0
Point 13	Unassigned	Point 13		0	Unassigned	1	500 ms	0
Point 14	Unassigned	Point 14		0	Unassigned	1	500 ms	0
Point 15	Unassigned	Point 15		0	Unassigned	1	500 ms	0
Point 16	Unassigned	Point 16		0	Unassigned	1	500 ms	0
Point 17	Unassigned	Point 17		0	Unassigned	1	500 ms	0
Point 18	Unassigned	Point 18		0	Unassigned	1	500 ms	0
Point 19	Output	Fire Supervisory Active		20	CF: Silence	1	-	0

Figure 1.27: Point Assignments

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