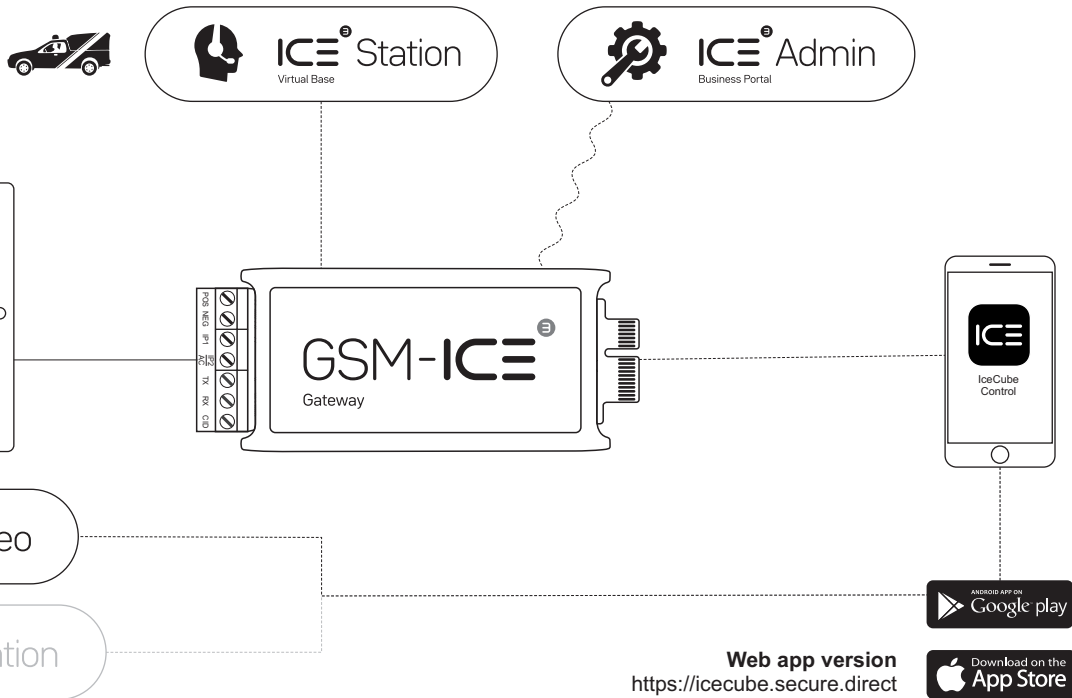


ICE³

Interactive
Communication
Ecosystem

The GSM-ICE³ Gateway connects almost any alarm panel with the communication ecosystem. This allows for alarm signal reporting to the control room, control of the alarm system with the smart phone app and the addition of IP cameras using the same app. Smart home/business IoT functions will be available in the near future.



Web app version
<https://icecube.secure.direct>



BEFORE INSTALLATION

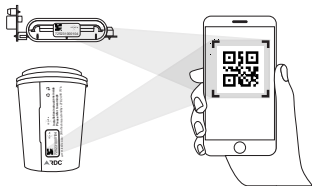
ICE[®] Admin

<https://iceadmin.secure.direct>

Your Dealer Admin User should input the following into the ICE³ Admin portal prior to installation.

1. Create an account.
2. Add the gateway serial number.

The serial number can be scanned from the outer packaging prior to installation or from the unit on-site and send to your Dealer Admin User for input. A Panel ID is generated automatically and linked in the system by the unit serial number.



3. Select a service plan, correct panel type and activate the account.
4. Add main and sub users for the ICE³ Control mobile app.
5. Input all other relevant customer information.
6. Select/confirm the correct panel type. Should the technician discover that a different panel is used on-site, the Dealer Admin User should be informed and the correct panel type input into ICE³ Admin portal. This input overrides selection in point 3 if different.

INSTALLATION



Antenna and unit mounting position

NB: Do not mount units with an internal antenna inside a metal enclosure.

Mount the gateway in its final position only when the optimal signal position has been determined - see LED indications.

When using a magnetic external antenna, mount either on top or underneath the control panel with a vertical orientation. Do not mount on the side with a horizontal orientation.

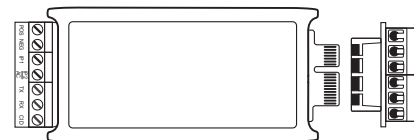
12 Volt power connection

Always use a minimum of 0.5mm² stranded wire for the 12V source. Four-core wire is definitely **NOT** recommended.

Maximum recommended wire length is 5m.

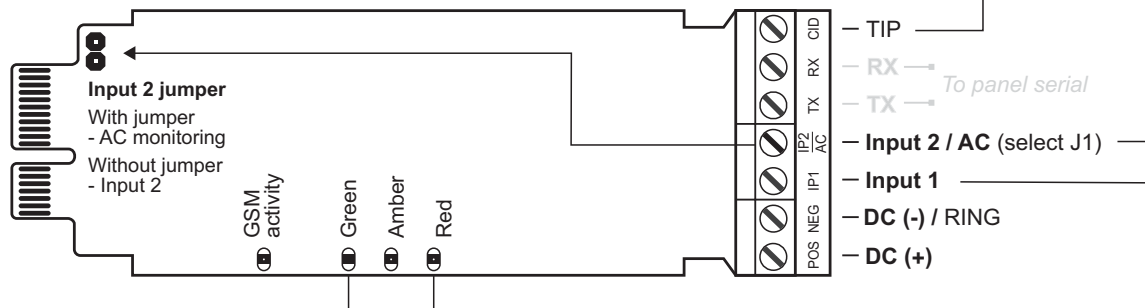
Key switch arming

Key switch arming via the mobile application can be achieved using a plug-in relay expander module.



See panel specific programming and wiring instructions to follow.

Gateway connections & reporting



Dialler capture/Contact ID

Connect *TIP* and *DC(-)* as per individual panel diagram for Contact ID reporting.

Battery monitoring and reporting

Reports battery low/battery restore.

Battery low - below 10.8V.
Battery restored - above 12.5V.
Connection - none required

Polling/auto test

Patented "always-on" network supervision.
No auto-test/self-test reporting needed.
Central station software generates alert on polling communication failure.
Connection - none required

LED Indications

GREEN - General

Off Restarting connectivity
Fast flashing Searching for network
Variable timing RSSI signal strength
- on longer = stronger
- on shorter = weaker

AMBER - GSM

Off No GSM link
Slow flashing GSM link active
Solid GSM network established

RED - Server

Off No server connection
Blip Server request (1x/3sec)
Fast flashing Negotiating (5x/sec)
Slow flashing Connected to server (1x/sec)

Additional hardwired inputs x2

- Alarm panel PGM
- Electric fence relay output
- Fixed panic button
- Wireless panic button receiver

Default trigger - positive pulse
Input delay - 100ms fixed
External resistor - not required

Input 1 (IP1) - fixed function

Input 2 (IP2/AC) - dual function

J1 jumper off - IP2 function selected
J1 jumper on - AC function selected
AC function monitors mains fail/restore.
AC delay - 10 minutes - fixed

DSC PowerSeries 1864PC

Programming mode [*][8][5][5][5][5]
 Installer mode [*][8]
 Installer code [5][5][5][5]

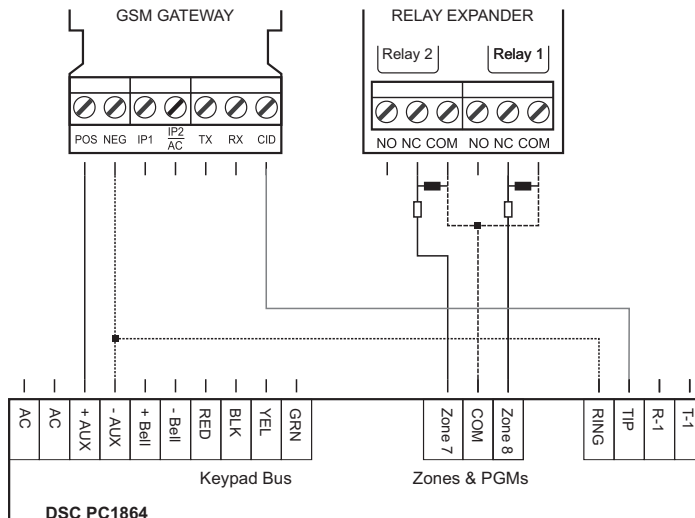
Communicator programming

Telephone no. [3][0][1] 1234*6666...
 System acc. code [3][1][0] 1234*66
 Partition acc. code [3][1][1] 1234
Note: If partitions 2-8 exist, programme sections 312-318 as 1234 as well.
 Coms. format [3][1][0] 0300
 Tel1 = 03 Tel2 = 00

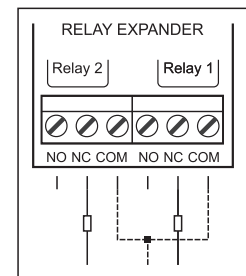
Note: Call directions option locations 351-374, 1 = on or Partition1. If the system has more partitions, 2-8 should also be on.

Op/Ci coms. [3][6][7] 1 = on
 - call direction 5 = on
 1st coms. options [3][8][0] 1 = on
 2nd coms. options [3][8][1] 4 = on

DEOL Connection



SEOL Connection



□ Zone resistor
 ■ Tamper resistor

Away and stay arm/disarm using Relay1&2

Zones 7-8 used as example.

Note: Key switch arm/disarm is global for all activated partitions.

Start Zone1 prog. [0][0][1]
 Scroll to Zone7 [<][>] Zone7 = 22
 (Momentary K/S arm)
 Scroll to Zone8 [<][>] Zone8 = 01 (Entry exit)
 Delays [0][0][5]
 Go to Partition1 [0][1]
 Entry1 delay 030 secs
 Entry2 delay 030 secs
 Exit delay 003 secs
 (for quicker arming)

Away/stay mode arm [0][2][3] 8 = off
 [2][0][2] 7 = on

Exit and save [#][#] 8 = on

DSC NEO

Programming mode [*][8][5][5][5][5]

Communicator programming

Panel coms. path [3][0][0]
 Receiver1 [0][0][1]
 Phone line [0][1]
 Phone numbers [#][3][0][1]
 Phone number1 [0][0][1] 1234 *66#
 Account codes [3][1][0]
 System acc. code [0][0][0] 1234

Partition1 acc. code [0][0][1] 1234#

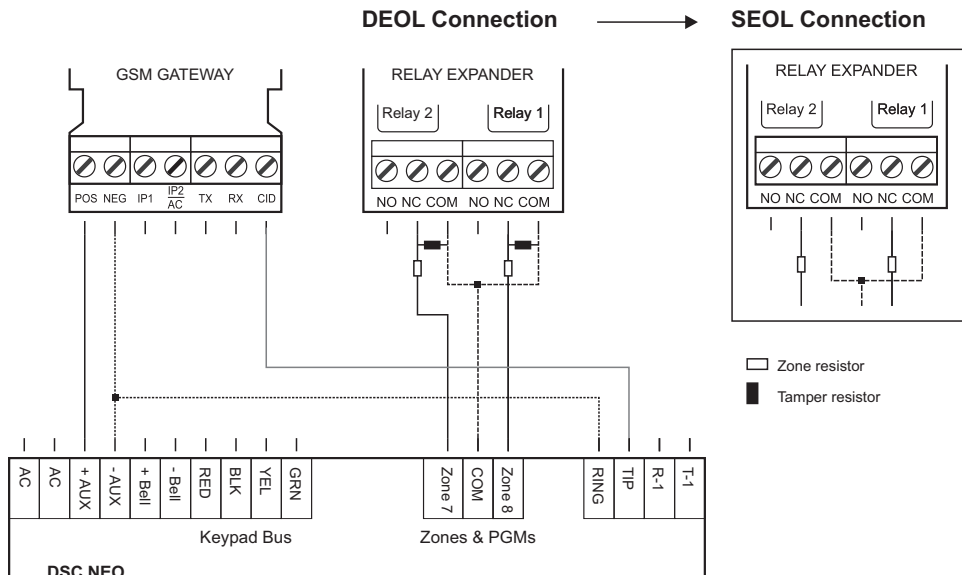
Note: Programme 002-008 as 1234 if partitions 2-8 are present.

Part.1 call direction [3][1][1]

001-003 to report to receiver1 - 1st Tel no.

Note: Program 312-318 as 1234 if partitions 2-8 are present.

Com. format [3][5][0]
 RC#1 format [0][0][1] CID = auto
 Com. options 1 [3][8][0]
 Scroll [<][>] Comms enable = Y
 Com. options 2 [3][8][0]
 Scroll [<][>] Closing confirm = Y



Away and stay arm/disarm using Relay1&2

Zone 7-8 used as example - [<][>] to scroll

Section 001- Zone7 [0][0][7][*]

Install Zone7 resistor to Relay1 on the unit.

Momentary arm [0][6][6]
 [0][0][8][*]

Install Zone8 resistor to Relay2 on the unit.

Zone8 as entry/exit [0][0][1]

Section 022 - option 10 Zone8 [*= No][#]

To arm system in AWAY or STAY mode.

System times [0][0][5] 001

Partition1 timers [2][0][1] Zones 7/8 = Y

Exit and save [#][#][#]

IDS805^S

Programming mode [*][9][9][9]9 (default)

Communicator programming

1st Telephone number

1st digit [4][3][*][1][*]
 2nd digit [4][4][*][2][*]
 3rd digit [4][5][*][3][*]
 4th digit [4][6][*][4][*]

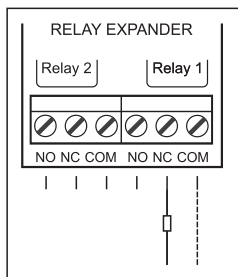
Communicator format

Contact ID protocol [4][7][*][6][*]

Account code

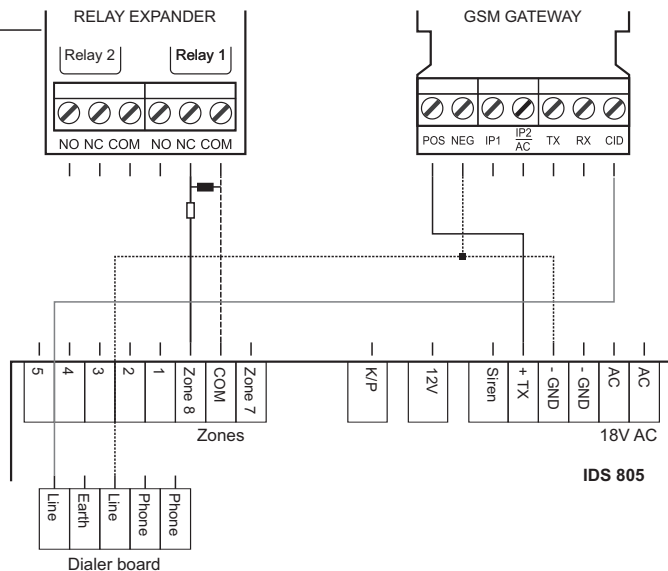
1st digit [4][8][*][1][*]
 2nd digit [4][9][*][2][*]
 3rd digit [5][0][*][3][*]
 4th digit [5][1][*][4][*]

SEOL Connection



□ Zone resistor
 ■ Tamper resistor

DEOL Connection



Away arm/disarm using Relay1

Zone8 used as example.

Go into programming

Select Zone8 [8][*]

Zone option K/S arm/disarm [5][*]

Note that the exit delay need not be programmed as this will instantly arm the system in away mode.

Exit and save

[#][#][#]

NOTE:

Stay mode key switch arm/disarm via the app is not supported on this panel.

Stay arm/disarm can be done via the keypad.

Although not functional, the away arm function is still shown in the mobile app.

Programming mode [9][9][9][9][*]
Installer mode [5][5][5][5]

Communicator programming

Telephone number [4][1]
Contact ID [5][*]
Telephone number [5][1] 1234
Partition1 [6][1]
Account code [1][2][3][4]

Note: Programme 62-68 as 1234 if partitions 2-8 are present.

Programming zone arming and disarming

Zone7 used as example.

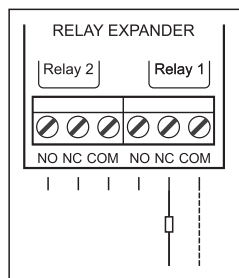
Access Zones1-7 [1][*]
Select Zone7 [7][*]
Key switch arm/disarm [5][*]

Exit and save [#][#]

Panel programming

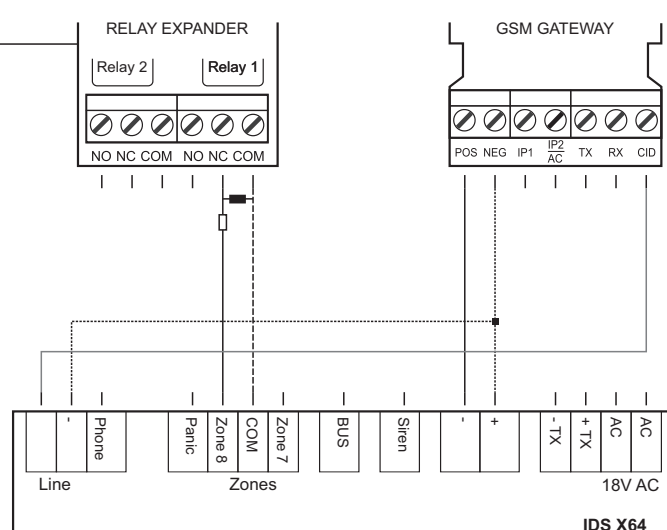
Programming mode [0] hold down
Installer code [0][0][0][0][0][0]
The keypad expects a 4-digit section number
Enable tel. reporting [3][0][3][6] 3 = on
Communicator acc. no [3][0][6][1] 1234
Note: Program 3062-3068 as 1234 if partitions 2-8 are present.
Contact ID format [3][0][7][0] 5555
Telephone no. 1 [3][0][7][1] 1234
Auto-zone report codes [4][0][3][2]
Auto-trouble report codes [4][0][3][7]

SEOL Connection



 Zone resistor
 Tamper resistor

DEOL Connection



Away arm/disarm using Relay1

Zone7 used as example.

Key switch prog. type [0][5][0][3]
8-dig. panel serial no.
3-dig. zone input no.
used e.g. 007
Key switch prog. [0][6][0][3]
Assigned Partition1 [1]
Momentary K/S pulse [1]
Force arming [1]
Instant arming (AWAY) [8]
K/S arming delay [3][1][3][0] 001 = 1 sec
0 sec will not work

Exit programming [CLEAR]

NOTE:

Stay mode key switch arm/disarm via the app is not supported on this panel.
Stay arm/disarm can be done via the keypad.
Although not functional, the away arm function is still shown in the mobile app.

P ▲ R ▲ D O X

MG5050

Default code [0][0][0][0]

Communicator programming

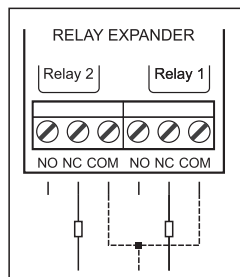
The keypad expects a 3-digit section number.

Programming options [8][0][0]

- 1 - TLM trouble on
- 2 - TLM reporting on
- 5 - Tone dial on
- 6 - force dial on

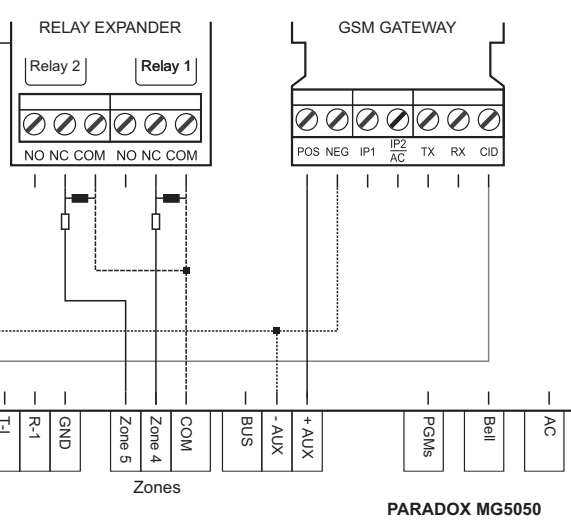
Contact ID	[8][1][0]	
Partition1	[4][4]	
	[8][1][1]	1234
Partition2	[8][1][2]	1234
Telephone no.1	[8][1][5]	1234

SEOL Connection



□ Zone resistor
■ Tamper resistor

DEOL Connection



Away and stay arm/disarm using Relay1&2

Zones 4-5 used as example.

Away arming

Install Zone5 resistor to Relay1 on the unit.

Zone5 [0][0][5]
Momentary key switch [2][6]
Partition assignment [1][Enter]
None of the zone options should be selected.
Exit delay Partition1 [7][4][5] 000

Panel will instantly arm when key switch is activated.

Stay arming

Install Zone4 resistor to Relay2 on the unit.

Zone4 [0][0][4]
Momentary key switch [2][6]
Partition assignment [1]
Select no.6 zone option [Enter]
Exit delay Partition1 [7][4][5] 000
Panel will instantly arm when key switch is activated.

Exit programming [CLEAR]
Exit and save [Menu][Yes]

P ▲ R ▲ D O X

EVO192

Default code [0][0][0][0]

Communicator programming

The keypad expects a 4-digit section number.

Enable tel. reporting [3][0][3][6] 3 = on

Communicator acc. no. [3][0][6][1] 1234

Note: Program 3062-3068 as 1234 if more than one partition is present.

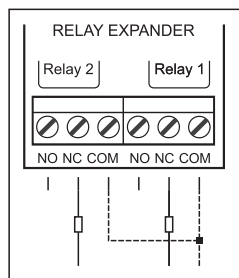
Contact ID format [3][0][7][0] 5555

Telephone no.1 [3][0][7][1] 1234

Zone reporting codes [4][0][3][2]

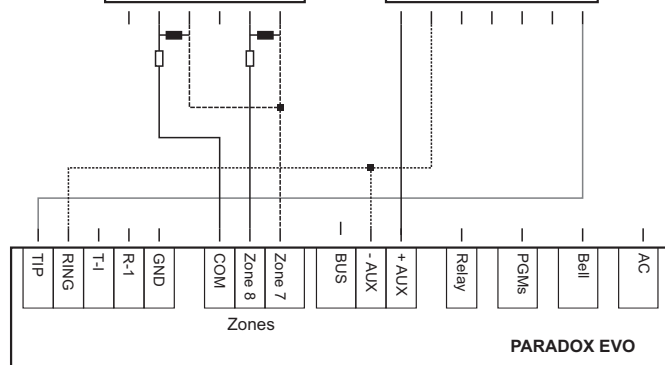
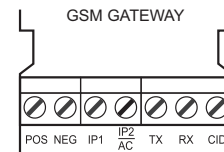
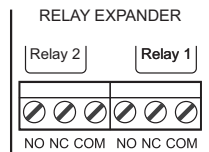
Trouble reporting codes [4][0][3][7]

SEOL Connection



□ Zone resistor
■ Tamper resistor

DEOL Connection



Away arm/disarm using Relay1

Zone7 used as example.

Key switch programming [0][5][0][3]

8-Digit panel serial no. [0][1][2][x] [x][x][B][C]

Zone input number [0][0][7]

Key switch programming [0][6][0][3]

Assigned Partition1 [1]

Momentary key switch [1]

Force arming [7]

Instant arming (AWAY) [8]

Key switch arming delay [3][1][3][0]

1 Second waiting time [0][0][1]

Note: 0 Sec does not work, value must be 001.

NOTE:

Stay mode key switch arm/disarm via the app is not supported on this panel.

Stay arm/disarm can be done via the keypad.

Although not functional, the away arm function is still shown in the mobile app.

Texecom 832/412

Programming mode [1][2][3][4] Menu 9

Communicator programming

UDL and DIGI options [7][0]

1 Enable comms on

2 Dial in DTMF on

5 Auto test on

8 Blind dial on

Save [Yes/Arm]

ARC no.1 settings [7][1]

Telephone no. [0] 1234 [Yes/Arm]

Account code [1] 1234 [Yes/Arm]

Reporting protocol [2]

Contact ID [4]

Dialling attempts [3] Default value

Reporting partitions [4]

Ensure the relevant partitions in use are displaying on the keypad. If it's not displaying, press 1,2,3,4 and switch them on.

Save [Yes/Arm]

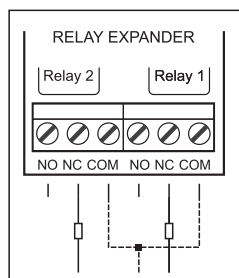
Reporting event [5]

As default all options are already selected

Select protocol options [8][2]

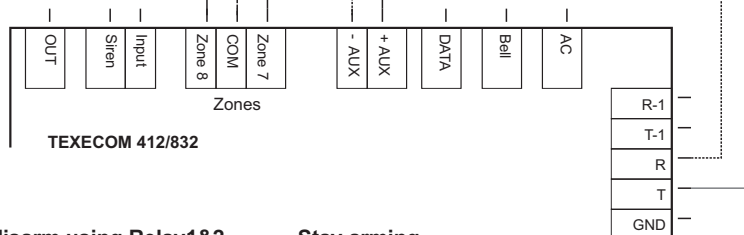
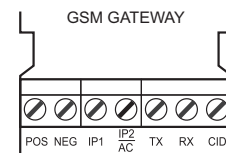
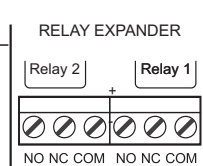
Save [Yes/Arm]

SEOL Connection



☐ Zone resistor
☒ Tamper resistor

DEOL Connection



Away and stay arm/disarm using Relay1&2

Zones7-8 used as example.

Away arming

Go into programming [1][1]

Select Zone8 [0][8]

Key switch arm/disarm [1][6]

Force arming [1][4] on (all Zones)

Set on for all Zones, this option default is off.

Set the zone attributes [1][5]

Select Zone8 [0][8]

Confirm [Yes/arm]

Return to main location [Menu]

Note: Exit delay need not to be programmed.

Stay arming

Go into programming [1][1]

Any zone eg Zone7 [0][7] [1][6][n][g]

Return to main location [Menu]

Miscellaneous 1 [4][Yes]

Ensure 4=off to report stay arm/disarm.

Force arming [1][4] on (all Zones)

Set on for all Zones, this option default is off.

Zone attributes [1][5]

Select Zone7 [0][7]

Instant stay on Zone7 [4]

Confirm [Yes/arm]

Return to main location [Menu]

Note: Exit delay need not to be programmed.

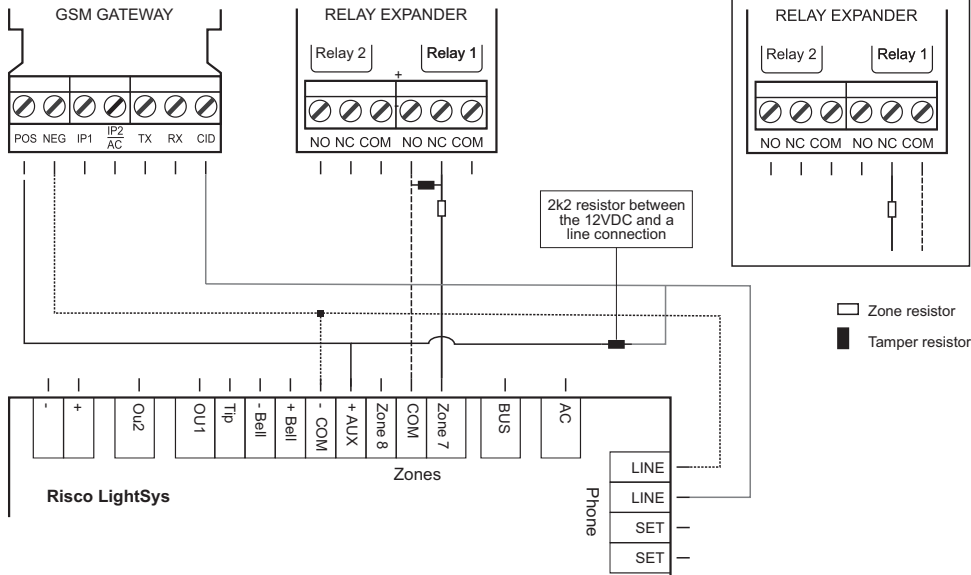
Exit and save [9]

Exit and save [MENU][YES]

Programming mode [1][1][1][1] [OK]

Communicator programming

Select programming [OK]
 Select com. option [OK]
 Select method [OK]
 Select PSTN [OK]
 Select timers [OK]
 Select PSTN lost [OK]
 Set minutes [0][0] [OK]
 Select wait dial tone [OK]
 Set seconds [0][0] [OK]
 Press the page/back button
 Go to parameters [OK]
 Select dial method [OK]
 Select DTMF [OK]
 Press the page/back button
 Go MS [OK]
 Select MS1 [OK]
 Select voice [OK]
 Select PSTN only [OK]
 Insert tel no. [1][2][3][4] [OK]
 Press the page/back button
 Go to accounts [OK]
 Select MS1 [OK]
 Insert the acc. no. [0][0][1][2][3][4] [OK]
 Press the page/back button
 Go to com. format [OK]
 Select Contact ID [OK]
 Press the page/back button twice
 Save and exit [0] [OK]



Away arm/disarm using Relay1

Zone7 used as example.

Insert installer code [1][1][1][1] [OK]
 Select programming [OK]
 Select zone options [OK]
 Select parameters [OK]
 Select individually [OK]
 [0][7] [OK]
 Set zone for K/S arm [1][9] [OK]
 Save and exit [0] [OK]

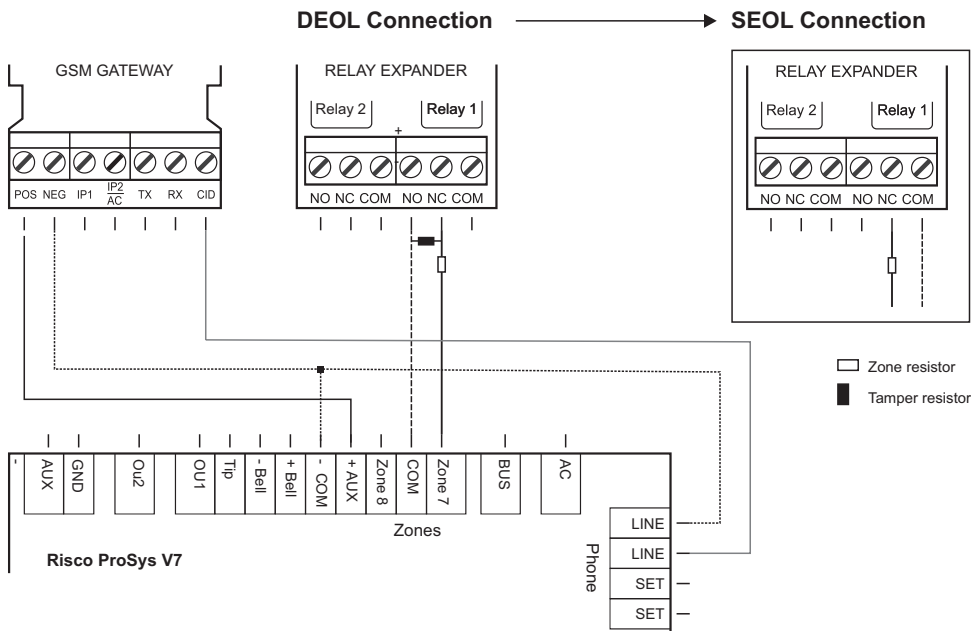
NOTE:

Stay mode key switch arm/disarm via the app is not supported on this panel.
 Stay arm/disarm can be done via the keypad.
 Although not functional, the away arm function is still shown in the mobile app.

Programming mode [*][7][0][1][2][8][#]

Communicator programming

Go to 5 dialer [#]
 Select 1 link-up [#]
 Select 1 MS link-up [#]
 Select 1 MS #1 link-up [#]
 Select 1 PSTN/voice [#]
 Insert tel. no. [1][2][3][4][#][*][*]
 Go to no.2 accounts [#]
 Select 1 Partition1 [#]
 Select 1 MS tel.1 [#]
 Input account code [0][0][1][2][3][4][#]
 Select N (No) [#][*][*]
 - to not apply settings to all partitions.
 Go 3 comm format [#]
 Select 1 1st tel. [#]
 Input format [0][4][2][0][#][*]
 Select 5 control [#]
 Select 1 MS enable [Y][#]
 Go to 6 parameters [#]
 Select 6 dial method [#]
 Select 1 DTMF [#]
 Exit and save [*][*]



NOTE:

Stay mode key switch arm/disarm via the app is not supported on this panel.

Stay arm/disarm can be done via the keypad.

Although not functional, the away arm function is still shown in the mobile app.

Caddx NX8 V2

Programming mode [*][8][9][7][1]3[0][#]

Communicator programming

Step 1 - Location 0

Input phone number

Segment 1 15

Segment 2 1

Segment 3 2

Segment 4 3

Segment 5 4

Segment 14 A

Step 2 - Location 1

Enter 1234 into segments 1234 respectively

Step 3 - Location 2

Enter a 1 for Ademco Contact ID

Step 4 - Location 5

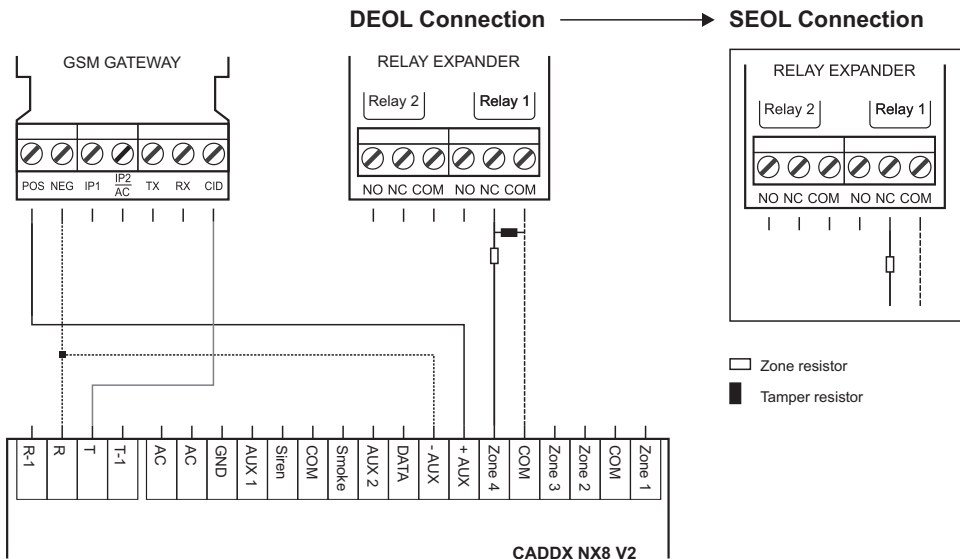
Enable Partition1 to report to phone no.1

Step 5 - Location 23

Segment 3 enable 1&2 for opening and closing and zone bypass reporting

Step 6 - Location 88

Enter 1234 into segments 1234 respectively for the account code in partition 1



Away arm/disarm using Relay1

Zone7 used as example.

Programming mode [*][8][9][7][1]3[0][#]

Location 25 (zone programming 1-8)

Select segment 7 (Zone7) [1][1]

This will set Zone7 as a key switch zone

Exit and save

[#][#]

NOTE:

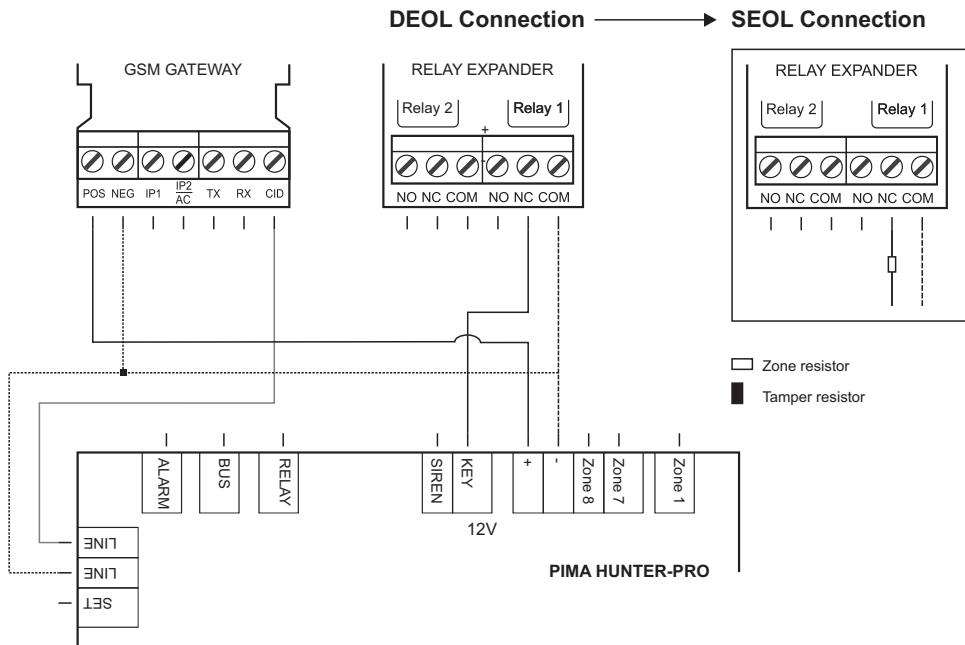
Stay mode key switch arm/disarm via the app is not supported on this panel.

Stay arm/disarm can be done via the keypad.

Although not functional, the away arm function is still shown in the mobile app.

Panel programming

Programming mode [1][2][3][4]
 Communication [1][3][ENTER]
 Access MS1 options [ENTER]
Ensure that the MS1 protocol options display 0 and 230 and T=1.
 Modify MS1 reporting [ENTER]
 Prog. test/interval time [ENTER]
 Set radio test interval [ENTER]
 ID account 000000 [ENTER]
 Configure account no. [NEXT] [ENTER]
 Phone no. [1][2][3][4]
 Radio no. [1][2][3][4] [ENTER]
 [END]
 Add MS1 phone no. [1][2][3][4]
Add MS2 and MS3 phone no.s if used.
 Modify coms. option [#] for + to -
 Connect T-Line +
 No dial tone check +
 Tone dial +
Check other options required to be activated as per installation requirements.
 Set rings [1]
 Set dials [3]
 ACK wait time leave as is
 External line leave as is [ENTER]
 Enable comm methods PSTN primary +
 all others -
 Exit programming [END] repeat



Away arm/disarm using Relay1

On-board panel key switch zone is used for arm/disarming. Connect Relay1 as per the diagram. No resistor required.

NOTE:

Stay mode key switch arm/disarm via the app is not supported on this panel.

Stay arm/disarm can be done via the keypad. Although not functional, the away arm function is still shown in the mobile app.

WARNINGS

In addition to these warnings, please also read the Warnings and General Trading Terms & Conditions (including an indemnity) in the Combined Agreement including its schedules and addendums as updated from time to time at www.radiodata.co.za.

INSTALLATIONS MUST BE CARRIED OUT BY QUALIFIED SERVICE PERSONNEL ONLY.

Socket outlet must be installed near the control panel and be easily accessible.

Telephone plugs and connectors must be installed inside the metal enclosure of the control panel. Interconnecting cables must be placed in conduit.

The unit must only be operated with a supplied and approved antenna.

Install the gateway in a location where no person is less than 200mm from the antenna at any time.

Only install the gateway in accordance with this manual for proper operation.

Comply with all applicable standards which require regular servicing by qualified licensed technicians as well as regular testing.

