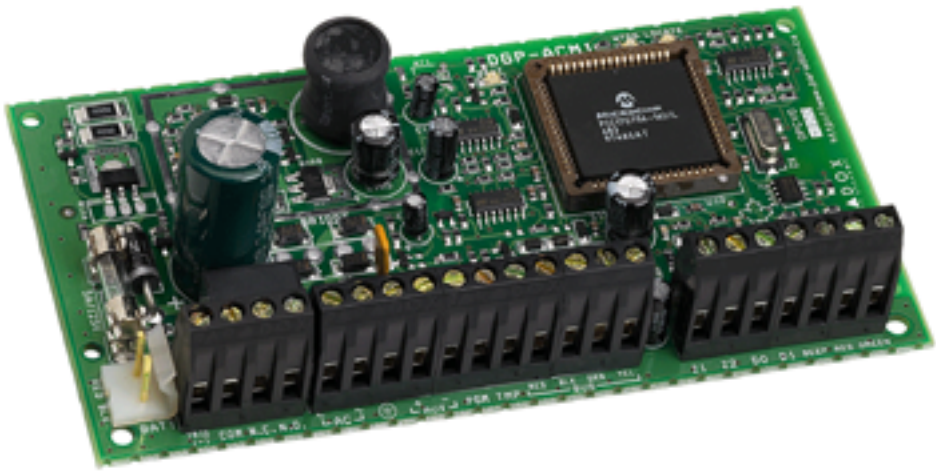
DIGIPLEX™

PARADOX

Access Control Module V2.0



DGP2-ACM1P

Reference & Installation Manual

PARADOX®

SECURITY SYSTEMS

Table of Contents

1.0 Introduction

The Access Control Module (DGP2-ACM1P) is designed to be used with the Digiplex System control panels' Access Control feature. Each DGP2-ACM1P allows you to connect a reader, such as the PosiProx CR-R880-BL, a REX device, such as the Paradoor 460, a door contact and a locking device to control the access to one door. If desired, door contacts can also be assigned to zones in the control panel to link the doors to the alarm system. This will allow you to use the same door for the access control system and the alarm system. Please refer to the DGP-848 or DGP-NE96 Reference & Installation Manual for more information on access control.

1.1 What's New with Version 2.0

- Unlock Door on Fire Alarm option (refer to section 5.27 on page 24)
- Safe Mode Features (refer to section 6.0 on page 25)
- Reader Locate Feedback option (refer to section 5.26 on page 23)

1.2 Technical Specifications

AC Power:	16Vac, 20/40VA, 50 - 60Hz
Aux. Power:	12Vdc, typical 600mA, 700mA max.
Battery:	12Vdc, 4Ah minimum
No. of Outputs:	2; one 50mA PGM output, one form C relay rated at 5A/28Vdc, N.O./N.C.

No. of Zones:	2 (Door Contact & REX device)
No. of Inputs:	2 (Negative Trigger & Tamper inputs)
Control Panel Compatibility:	Any DGP-848 control panel with access control Any DGP-NE96 control panel

2.0 Installation

The module is connected to the control panel's combus. Connect the module to the control panel as shown in Figure 9.3 on page 38. Please refer to the DGP-848 or DGP-NE96 Reference & Installation Manual for the maximum allowable installation distance from the control panel. Devices connected to the PGM output must be connected as shown in Figure 9.4 on page 39. Refer to section 9.0 on page 37 for connection drawings for the REX device, reader, locking device and door contact.

The door contact follows the control panel's EOL definition. When EOL is enabled and the door contact is not used, place a 1kΩ resistor across the CT and AUX- input terminals. If EOL is not enabled, use a jumper. If the REX device is not used, place a jumper across the REX and AUX- terminals.

3.0 Connections

The DGP2-ACM1P is available with a built-in power supply. This power supply is used to provide power to the door locking device.

3.1 AC Power

Use a 16.5Vac (50/60 Hz) transformer with a minimum 20VA rating to provide sufficient AC power. Do not use any switch-controlled outlets to power the transformer. Connect the transformer as shown in Figure 9.3 on page 38.

3.2 Backup Battery

To supply power to the module's door lock relay during a power failure, connect a 12Vdc 4Ah rechargeable acid/lead or gell cell backup battery as shown in Figure 9.3 on page 38. Connect the battery after applying AC power.

When installing the battery, verify proper polarity as reversed connections will blow the battery fuse.

3.3 Connecting the External Negative Trigger

The DGP2-ACM1P comes supplied with an external negative trigger. You can use a PGM from the control panel or another module to release the access control door lock. Connect the desired PGM output terminal to the "**TRIG (-)"** terminal of the module as shown in Figure 9.5 on page 39. Once connected, program the desired PGM event. When the event occurs, the door will unlock. The external negative trigger can also be triggered using a push-button. When the push button is pressed, the

door will unlock. Connect the push-button as shown in Figure 9.5 on page 39.

4.0 About Programming

How to program.

1. Press and hold the **[0]** key.
2. Enter the **[INSTALLER CODE]**.
3. Enter section **[953]** (DGP-848) or **[4003]** (DGP-NE96).
4. Enter the DGP2-ACM1P's 8-digit **[SERIAL NUMBER]**.
5. Enter the 3-digit **[SECTION]** you want to program.
6. Enter the required data.

The DGP2-ACM1P can also be programmed using the WinLoad software (V2.0 or higher) or using the control panel's *Module Broadcast* feature. Refer to the control panel's *Reference & Installation Manual* for more details. Please note that the serial number can be located on the Access Control Module's PC board.

5.0 Programming

5.1 Assigning Doors to Partitions

SECTION **[001]**: OPTIONS **[1]** TO **[8]**

The access control door can be assigned to one or more partitions in the alarm system. This means that the actions performed with the access card will be directly linked to the partition(s) assigned to that door. To assign an access control door to a partition, simply enable the option that corresponds to the desired partition. Options **[1]** to **[8]** represent partitions 1 to 8 respectively. *Partition 1 is enabled by default.*

The Access Control Module can only be assigned to partitions 5 to 8 if connected to a DGP-NE96 control panel.

5.2 Anti-Tamper Input

SECTION **[002]**: OPTION **[1]**

The DGP2-ACM1P does not come equipped with an anti-tamper switch. If required, enable option **[1]** and connect an anti-tamper switch to the **"TMP"** input as shown in Figure 9.2 on page 37. When a tamper is detected on the module, it will send a tamper report to the control panel via the bus. *Default: Option **[1]** OFF*.

5.3 Reader's Red LED to Follow Partition's Status

SECTION **[002]**: OPTION**[3]**

The reader's red LED can be programmed to flash according to the partition's status. When

this feature is enabled, the reader's red LED will flash when the partition is arming, in Exit Delay, in Entry Delay, in Burglar Alarm or in Fire Alarm. *Default: Option **[3]** is ON.*

5.4 Reader's Beep to Follow Partition's Status

SECTION **[002]**: OPTION **[4]**

This feature will only function when the Reader's Red LED to Follow Partition's Status feature is enabled (refer to section 5.3 on page 9). The reader can be programmed to beep according to the partition's status. When this feature is enabled, the reader will beep when the partition is arming, in Exit Delay, in Entry Delay, in Burglar Alarm or in Fire Alarm. *Default: Option **[4]** is ON.*

5.5 Reader's Green LED Options Upon Access Granted

SECTION **[002]**: OPTION **[7]**

With option **[7]** ON, the reader's green LED will illuminate when the door is unlocked, except if the door is in Safe Mode (refer to section 6.0 on page 25). With option **[7]** OFF, the reader's green LED will not illuminate when the door is unlocked. *Default: Option **[7]** is ON.*

5.6 Unlock on Request for Exit (REX)

SECTION **[002]**: OPTION **[8]**

When the REX device detects movement, it can permit passage with or without turning the door handle. If this option is enabled, the door is unlocked when the REX device detects movement and users on either side of the door will be able to open the door. If this option is disabled, the door will unlock once the handle is turned only on the REX device's side. *Default: Option **[8]** is OFF.*

5.7 Door Unlocked Period

SECTION **[006]**

The Door Unlocked Period is the period of time that the door will remain unlatched after access is granted or after a Request for Exit is received. Enter any value between 001 and 255 seconds. *Default: 005 seconds.*

5.8 Door Unlocked Period Extension

SECTION **[007]**

The Door Unlocked Period Extension is the amount of time added to the Door Unlocked Period (refer to section 5.7 on page 11), which leaves the door unlatched longer. This will allow those with this feature enabled in their User Code Options extra time to enter, which may be useful for the physically challenged or for seniors. Enter any value between 001 and 255 seconds. *Default: 015 seconds.*

5.9 Relock Interval

SECTION **[002]**: OPTION **[6]**

The locking device will remain unlatched during the Door Unlocked Period (refer to section 5.7 on page 11), but once the door is opened it can be programmed to latch as soon as the door closes or latch immediately even if the door has not closed. When the option is ON, the locking device will latch when the door closes. When the option is OFF, the locking device will latch immediately. *Default: Option **[6]** is OFF*.

5.10 Door Unlocked Schedule

SECTION **[013]**

The Door Unlocked Schedule determines the hours, days, and holidays that the door will remain unlocked. Therefore, users will not have to present their access cards to the reader in order to gain access to an access control door. The Door Unlocked Schedule will continue to function even when the door is in Safe Mode (refer to section 6.0 on page 25), unless the Safe Mode Door Unlocked Period is activated (refer to section 6.6 on page 28). The schedule consists of two programmable time periods called *Intervals* that determine the time of day and which days the users will be granted access. When a schedule is programmed with “H”, users will have access during the holidays programmed in the control panel (refer to the DGP-848 or DGP-NE96

Reference & Installation Manual). Program the Start Time and End Time according to the 24-hour clock within the same day.

Key	Day	Key	Day	Key	Day
[1]	Sunday (S)	**[4]**	Wednesday (W)	**[7]**	Saturday (S)
[2]	Monday (M)	**[5]**	Thursday (T)	**[8]**	Holidays (H)
[3]	Tuesday (T)	**[6]**	Friday (F)		

Example 1: (standard operation)

Interval 1: Start Time **07:00**
End Time **16:00**
_ M T W T F _ _

Interval 2: Start Time **10:00**
End Time **17:00**
S _ _ _ _ _ S H

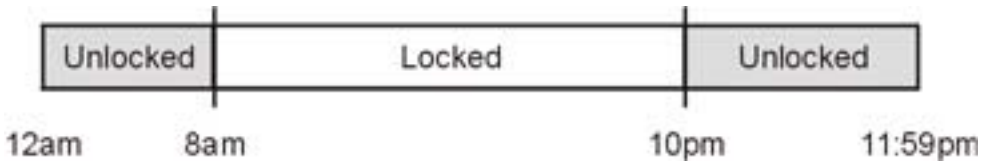
With this setting, the access control door is unlocked on Monday, Tuesday, Wednesday, Thursday and Friday from 7am to 4pm, and on Saturday, Sunday and Holidays from 10am to 5pm.

When programming the schedule, the End Time can be set earlier than the Start Time (refer to Example 2 below). Please be advised that once unlocked, the door will remain unlocked until the next programmed End Time.

Example 2: (special operation)

Start Time **22:00**
End Time **8:00**

With this setting, the access control door is locked between 8am and 10pm, and unlocked from 10pm to 11:59pm and from 12:00am to 8am on the selected day(s).



5.11 Card Activates Door Unlocked Schedule

SECTION **[002]**: OPTION **[5]**

When the Door Unlocked Schedule is programmed (refer to section 5.10 on page 12) and this option is enabled, the door is locked until the first valid access card is presented. Once the door is unlocked, it will remain unlocked until the end of the schedule. *For example: the schedule is 7AM to 5PM Monday to Friday, option **[5]** is enabled, and a valid access card is presented to the reader at 8AM on Monday. Although the schedule started at 7AM, the door remained locked from 7AM to 8AM. Once access was granted at 8AM, the door remained unlocked until 5PM. Default: Option **[5]** is OFF*.

5.12 Door Left Open Access Alarm

SECTION **[003]**: OPTION **[1]**

With option **[1]** ON, when an access control door is opened after an Access Granted or a Request for Exit, a local access alarm will

generate if the door is not closed within a certain period of time (refer to section 5.13 on page 15). *Default: Option **[1]** is OFF.*
When the Door Left Open Alarm is disabled, the following sections are also disabled:

Section

[003] Option **[2]** Door Left Open Pre-alarm

Option **[3]** Door Left Open Alarm (audible/silent)

Option **[4]** Door Left Open Alarm follows (restore/timer)

[008] Door Left Open Interval Before Access Alarm

[009] Door Left Open Pre-alarm Timer

[010] Beep timer for Door Left Open Alarm

5.13 Door Left Open Interval Before Access Alarm

SECTION **[008]**

The Door Left Open Interval is the period of time that a door can remain open after an Access Granted or a Request for Exit without generating a local access alarm (refer to section 5.12 on page 14). Enter any value between 001 and 255 to determine the number of seconds the door may remain open before the local access alarm is triggered. *Default: 060 secs.*

The value programmed in this section must be higher than that programmed for the Door Left Open Pre-Alarm Timer (refer to section 5.15 on page 16).

5.14 Door Left Open Pre-Alarm

SECTION **[003]**: OPTION **[2]**

An access control door is programmed with a Door Left Open Interval (refer to section 5.13 on page 15). The pre-alarm will cause the reader to beep for a programmed period of time (refer to section 5.15 on page 16) before the end of the Door Left Open Interval to alert users that the access control door was left open and will generate a local access alarm (refer to section 5.12 on page 14) if it is not closed. The pre-alarm beeps slower than the Door Left Open alarm (about twice every second). With option **[2]** ON, the Door Left Open Pre-alarm feature is enabled. *Default: Option **[2]** is ON.*

5.15 Door Left Open Pre-Alarm Timer

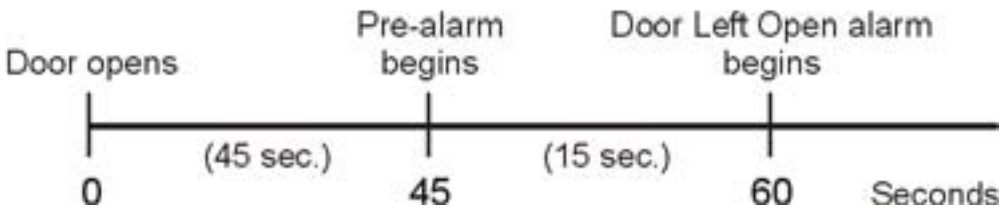
SECTION **[009]**

This feature determines the amount of time prior to the end of the Door Left Open Interval (refer to section 5.13 on page 15) that the Door Left Open Pre-Alarm will activate (refer to section 5.14 on page 16). *For example, if the Door Left Open Pre-Alarm is set at 15 seconds, the reader will start beeping 15 seconds before the end of the Door Left Open Interval.* Enter any value between 001 and 255 seconds. *Default: 015 secs*.

The value programmed in this section must be lower than that programmed for the Door Left Open Interval (refer to section 5.13 on page 15).

Example:

Door Left Open Interval: Section **[008]** = 060 seconds
Door Left Open Pre-alarm Timer: Section **[009]** = 015 seconds



5.16 Door Left Open Alarm Feedback

SECTION **[003]**: OPTIONS **[3]** AND **[4]**

An access control door is programmed with a Door Left Open Interval (refer to section 5.13 on page 15). Once this interval has expired, the Door Left Open Alarm can be either audible or silent and will either beep as long as the local access alarm is occurring or follow the beep timer in section [010] (refer to section 5.17 on page 18). The sound of the Door Left Open Alarm resembles the rapid beep generated during the last ten seconds of the Exit Delay. When the door is closed during a local access alarm, the Door Left Open Restore event can be logged in the panel's Event Buffer (refer to DGP-848 or DGP-NE96 Reference & Installation Manual). With option

[3] ON, the alarm will be audible. With option **[4]** ON, the Door Left Open Alarm is set to follow the beep timer programmed in section [010]. With option **[4]** OFF, the Door Left Open Alarm is set to beep as long as the alarm is occurring. *Default: Option **[3]** is ON and option **[4]** is OFF*.

5.17 Beep Timer for Door Left Open Alarm

SECTION **[010]**

With section **[003]** option **[4]** ON (refer to section 5.16 on page 17), this beep timer determines the amount of time the Door Left Open Alarm will beep. Once the Door Left Open Interval (refer to section 5.13 on page 15) has expired, the Door Left Open Alarm (refer to section 5.12 on page 14) will be triggered. Enter any value between 001 and 255 to determine the number of seconds the local access alarm will beep. *Default: 005 seconds*.

5.18 Door Forced Open Options

SECTION **[003]**: OPTION **[5]**

If an access control door is opened without an access card, an external trigger or receiving a Request for Exit, an access alarm can be generated. A Burglar Alarm can also be generated (refer to the DGP-848 or DGP-NE96 Reference & Installation Manual). When the door is closed during an access alarm, the Door Forced Open Restore event can be

logged in the panel's Event Buffer (refer to DGP-848 or DGP-NE96 Reference & Installation Manual). Enabling the option will enable the Door Forced Open Alarm. *Default: Option **[5]** is OFF.*
When the Door Forced Open Alarm is disabled, the following sections are also disabled:

Section	
[003]	Option **[6]** Door Forced Open Alarm (audible/ silent) Option **[7]** Door Left Open Alarm Follows (restore/timer)
[011]	Beep timer for Door Forced Open Alarm

5.19 Door Forced Open Alarm Feedback

SECTION **[003]**: OPTIONS **[6]** AND **[7]**

The Door Forced Open alarm can be either audible or silent and will either beep as long as the Door Forced Open alarm is occurring or follow the beep timer in section [011] (refer to section 5.20 on page 20). The sound of the Door Forced Open Alarm resembles the rapid beep generated during the last ten seconds of the Exit Delay. Enabling option **[6]** will make the alarm audible. Enabling option **[7]** sets the Door Forced Open Alarm to follow the beep timer programmed in section [011]. Disabling option **[7]** sets the Door Forced Open Alarm to beep as long as the alarm is occurring.
*Default: Option **[6]** is ON and option **[7]** is OFF.*

5.20 Beep Timer for Door Forced Open Alarm

SECTION **[011]**

This beep timer determines the amount of time the Door Forced Open Alarm (refer to section 5.18 on page 18) will beep. Enter any value between 001 and 255 to determine the number of seconds the Door Forced Open Alarm will beep. *Default: 005 seconds.*

5.21 Battery Charging Current

SECTION **[002]**: OPTION **[2]**

With this feature OFF, the battery charging current will be 350mA. With this feature ON, the battery charging current will be 700mA. Setting the charging current at 350mA will take longer to recharge the battery than at 700mA, but will consume less power from the module itself. *Default: Option **[2]** is OFF.*

5.22 AC Failure Report Delay

SECTION **[005]**

The value programmed in this section represents how long the Access Control Module will wait before reporting an AC power failure to the control panel. To program the timer, enter any value between 001 to 255 minutes or 000 for instant reporting into section [005]. *Default: 000 (Instant Report).*

5.23 AC and Battery Supervision

SECTION **[004]**: OPTION **[8]**

This feature applies to DGP2-ACM1P version 1.1 or higher. Enable this feature if the DGP2-ACM1P's power supply is not being used. This disables AC and battery power supervision and prevents a trouble from being generated. *Default: Option [8] is OFF*.

5.24 PIN Entry on PosiPIN

SECTION **[004]**: OPTION **[5]**

This feature pertains to the Card and Code Access option programmed in the DGP-NE96 control panel (refer to the Access Control section of the DGP-NE96 Reference & Installation Manual). With the Card and Code Access option ON, a user must present their access card to the reader and then enter their PIN to enter an armed or locked access control door. If the reader is connected to a DGP2-ACM1P and if there is no keypad nearby in which to enter a PIN, access will be denied. With section [004] option **[5]** ON and by installing a PosiPIN (CR-R885-BL), the user can present their card to the PosiPIN reader and then enter their PIN on the PosiPIN's keypad to acquire access. *Default: Option **[5]** is OFF.*

This feature can only be used with DGP-NE96 control panels. If the access control door is using an ordinary proximity reader and is connected to the DGP2-ACM1P, disable the door's Card and Code Access option in the DGP-NE96 panel.

5.25 Reader Access Feedback

SECTION **[003]**: OPTION **[8]**

This feature determines how the reader will communicate Access Granted and Access Denied events. If option **[8]** is ON, the reader's feedback is both visual and audible (LED and beep tone). If option **[8]** is OFF, the reader's feedback is visual (LED) only. Refer to Table 5.1 for more information on the Access reader display. *Default: Option **[8]** is OFF.*

The reader's access granted green LED must be enabled (refer to section 5.5 on page 10) in order for the green LED to illuminate when an access granted event occurs.

Table 5.1: Reader Access Feedback

Option [8]	Access Granted	Access Denied
ON	Green LED illuminates and confirmation beep sounds ("Beep-Beep-Beep-Beep-Beep")	Red LED flashes and rejection beep sounds ("Beeeeep")
OFF	Green LED illuminates	Red LED flashes

5.26 Reader Locate Feedback

SECTION **[004]**: OPTION **[6]**

This feature applies to DGP2-ACM1P version 2.0 or higher and determines how the reader will communicate a Locate request from the control panel. When option **[6]** is enabled, the reader will convey the status both visually and audibly (LED and beep tone). When option **[6]** is disabled, the status will be communicated visually (LED) only. Refer to Table 5.2 on page 23 for more information on the Locate reader display. *Default: Option **[6]** is OFF.*

If the locate request is not stopped manually (refer to the DGP-848 or DGP-NE96 Reference & Installation Manual), the DGP2-ACM1P will automatically stop the Locate request after 30 minutes.

Table 5.2: Reader Locate Feedback

Feedback Type	Display
Visual	Green LED flashes quickly
Audible	1 beep every two seconds

5.27 Unlock Door on Fire Alarm

SECTION **[004]**: OPTION **[7]**

This feature applies to DGP2-ACM1P version 2.0 or higher and determines if the access control door connected to the DGP2-ACM1P will unlock automatically during a fire alarm. When option **[7]** is enabled, the door will unlock during a fire alarm. When option **[7]** is disabled, the door will not unlock automatically during a fire alarm. *Default: Option **[7]** is OFF.*

If the Unlock Door on Fire Alarm feature is enabled, and a fire alarm occurs and then the door goes into Safe Mode (refer to section 6.0 on page 25), the door will remain unlocked until a valid Safe Mode access card (refer to section 6.8 on page 30) is presented to the reader three times.

5.28 Access Card Serial Number Display

SECTION **[040]**

This feature applies to DGP2-ACM1P version 1.02 or higher and allows you to view an access card's serial number. Using an LCD or Grafica keypad, enter the DGP2-ACM1P's programming mode and then enter section [040]. Present the desired access card(s) to the reader connected to the DGP2-ACM1P. The access card's serial number will be displayed on the keypad's LCD screen. **In this**

mode, the door connected to the module cannot be accessed.

6.0 Safe Mode Programming

The Safe Mode feature applies to DGP2-ACM1P version 2.0 or higher.

When a communication loss occurs between the DGP2-ACM1P and the control panel, and lasts longer than 30 seconds, the DGP2-ACM1P enters into Safe Mode if the feature is enabled (refer to section 6.2 on page 26). When in Safe Mode, the access control door that is connected to the affected DGP2-ACM1P will grant access to designated access cards only (refer to section 6.8 on page 30). In Safe Mode, the access control door's Unlocked Schedule (refer to section 5.10 on page 12) will continue to function, however the reader will display the Safe Mode status (refer to section 6.4 on page 27) only. If you wish to override the door's Unlocked Schedule while in Safe Mode, activate the Safe Mode Door Unlocked Period (refer to section 6.6 on page 28). The DGP2-ACM1P will exit Safe Mode once communication has been restored between the DGP2-ACM1P and the control panel.

If a communication failure occurs between the DGP2-ACM1P and the control panel because the number of allowable modules has been exceeded, the DGP2-ACM1P will enter Fail To Com. Mode (refer to section 7.0 on page 31) instead of Safe Mode.

6.1 Safe Mode Actions

The following table lists the possible actions that can be performed while in Safe Mode.

Table 6.1: Safe Mode Actions

Safe Mode Action	How To
Access Granted	Present a Safe Mode access card to the reader three times*
Program Safe Mode Access Cards	Enter the appropriate section and then present the access card to the DGP2-ACM1P's reader three times*
Activate Safe Mode Door Unlocked Period	Present a Safe Mode access card to the reader five times: three times* (access granted) and then two more times within ten seconds
Lock a Door in Safe Mode	Ensure that the Safe Mode Door Unlocked Period is activated, and then present a Safe Mode access card to the reader five times: three times* (access granted) and then two more times within ten seconds

**After presenting the access card to the reader the first time, you have ten seconds to present the card a second time and then another ten seconds to present it the third time. If either of the ten second intervals are exceeded, the counter is reset and an access denied event is generated.*

6.2 Safe Mode

SECTION **[022]**: OPTION **[1]**

This option enables or disables the Safe Mode feature (refer to section 6.0 on page

25). Enable option **[1]** to enable the Safe Mode feature. *Default: Option **[1]** is ON*.

6.3 Safe Mode Access

SECTION **[022]**: OPTION **[2]**

When option **[2]** is enabled, the access cards that were programmed as being valid during Safe Mode (refer to section 6.8 on page 30) can be used to gain access to the access control door. When option **[2]** is disabled, no one will be able to gain access to the access control door during Safe Mode. *Default: Option **[2]** is ON.*

6.4 Reader Safe Mode Feedback

SECTION **[022]**: OPTION **[3]**

This feature determines how the reader will communicate that the DGP2-ACM1P it is connected to is in Safe Mode. When option **[3]** is enabled, the reader will convey the status both visually and audibly (LED and beep tone). When option **[3]** is disabled, the status will be communicated visually (LED) only. Refer to Table 6.2 for more information on the Safe Mode reader display. *Default: Option **[3]** is OFF.*

When in Safe Mode, the reader will display the Safe Mode status (refer to Table 6.2) only. Therefore, if the door is unlocked, the reader will not display the access granted status.

Table 6.2: Reader Safe Mode Feedback

Feedback Type	Display
Visual	Red and Green LED flash alternately (LED off in between)
Audible	2 beeps every two seconds

6.5 Safe Mode Door Unlocked Period

SECTION **[023]**

When the DGP2-ACM1P is in Safe Mode, you can force the access control door to remain unlocked (refer to section 6.6 on page 28) for the time period programmed in section **[023]**. Enter a value between 001 and 024 hours, or enter 000 to disable the Safe Mode Door Unlocked Period feature. When in Safe Mode, if the Safe Mode Door Unlocked Period is disabled (000), an unlocked door will remain unlocked until it is locked manually (refer to *section 6.7 on page 29*) *Default: 000.*

6.6 Activating the Safe Mode Door Unlocked Period

When DGP2-ACM1P goes into Safe Mode (refer to section 6.0 on page 25), the Safe Mode Door Unlocked Period (refer to section 6.5 on page 28) is activated when a valid Safe Mode access card (refer to section 6.8 on page 30) is presented to the door's reader five times: three times (access granted) and then two more times within ten seconds. When activated, the Safe Mode Door Unlocked

Period overrides the door's Unlocked Schedule (refer to section 5.10 on page 12) and the door will remain unlocked until the end of the Safe Mode Door Unlocked Period or until it is locked manually (refer to section 6.7 on page 29).

When in Safe Mode, the reader will display the Safe Mode status (refer to Table 6.2) only. Therefore, the reader will not display an unlocked status (refer to section 5.25 on page 22) even if the door is unlocked.

6.7 Locking a Door in Safe Mode

To lock an access control door that is in Safe Mode, ensure that the Safe Mode Door Unlocked Period is activated (refer to section 6.6 on page 28) and then present a valid Safe Mode access card (refer to section 6.8 on page 30) to the door's reader five times: three times (access granted) and then two more times within ten seconds. Locking a door in Safe Mode overrides the door's Unlocked Schedule (refer to section 5.10 on page 12) and Safe Mode Door Unlocked Period (refer to section 6.5 on page 28). Therefore, the door will remain locked until a valid Safe Mode access card is presented to the reader three times (access granted).

6.8 Safe Mode Access Cards

SECTIONS **[061]** TO **[064]**

When the DGP2-ACM1P enters Safe Mode (refer to section 6.0 on page 25), only designated access cards can be used to gain access to the access control door. You can program up to four access cards as being valid during Safe Mode. Sections **[061]** to **[064]** correspond to Safe Mode access cards 1 to 4 respectively.

The Safe Mode Access feature (refer to section 6.3 on page 27) must be enabled for the Safe Mode access cards to function.

How to program Safe Mode Access Cards.

In step 5 in section 4.0 on page 8:

1. Enter a section number between **[061]** and **[064]**.
2. Present the access card to the reader that is connected to the DGP2-ACM1P three times.

   Note: After presenting the access card to the reader the first time, you have ten seconds to present the card a second time and then another ten seconds to present it the third time. If either of the ten second intervals are exceeded, the card-passed counter is reset and an access denied event is generated.

6.9 Deleting Safe Mode Access Cards

SECTIONS **[070]** TO **[074]**

Programmed Safe Mode access cards (refer to section 6.8 on page 30) are deleted in sections **[070]** to **[074]**. Enter the appropriate section to delete the corresponding access card (refer to Table 6.3 on page 31). If the access card is deleted successfully, the keypad that you are programming with will activate a confirmation beep ("BEEP-BEEP-BEEP-BEEP-BEEP"). A rejection beep ("BEEEEEEEEEEEP") will sound if the access card was not deleted successfully.

Table 6.3: Deleting Safe Mode Access Cards

Section	Access Card
[070]	Delete all programmed access cards
[071]	Delete access card #1 in section [061]
[072]	Delete access card #2 in section [062]
[073]	Delete access card #3 in section [063]
[074]	Delete access card #4 in section [064]

7.0 Fail to Communicate Mode

This feature applies to DGP2-ACM1P version 2.0 or higher. If a communication failure occurs between the DGP2-ACM1P and the control panel because the number of allowable modules has been exceeded, the DGP2-ACM1P will enter Fail To Com. Mode instead of Safe Mode (refer to

section 6.0 on page 25). Refer to the appropriate Reference & Installation Manual for the maximum number of modules.

7.1 Reader Fail To Com. Feedback

The reader can display that the DGP2-ACM1P is in Fail To Com. Mode either visually and audibly (LED and beep tone) or visually (LED) only. The Fail To Com. reader feedback type follows the Safe Mode feedback type setting (refer to section 6.4 on page 27). For example, if the reader is set to display the Safe Mode status visually only, the Fail To Com. feedback will also be visually only. Refer to Table 7.1 for more information on the Fail To Com. Mode reader display.

Table 7.1: Reader Fail To Com. Feedback

Feedback Type	Display
Visual	Red and Green LED flash alternately every second
Audible	2 beeps every two seconds

7.2 Exiting Fail To Communicate Mode

In order to exit Fail To Com. Mode (refer to section 7.0 on page 31), ensure that the number of modules connected to the control panel does not exceed the maximum allowable number and then perform a Remove Modules operation twice (refer to the

DGP-848 or DGP-NE96 Reference & Installation Manual).

8.0 PGM Programming

8.1 PGM Deactivation Option

SECTION **[004]**: OPTION **[1]**

This option determines whether the PGM will deactivate after the PGM Timer has elapsed (refer to section 8.6 on page 35) or after the Deactivation Event has occurred (refer to section 8.5 on page 35). Enabling option **[1]** sets the PGM to follow the PGM Timer. Disabling option **[1]** sets the PGM to follow the PGM Deactivation Event. *Default: Option **[1]** is OFF*.

8.2 PGM Normal State

SECTION **[004]**: OPTION **[2]**

The on-board PGM can be set as Normally Open or Normally Closed. Enabling option **[2]** will set the PGM as a Normally Closed (N.C.) contact. Disabling option **[2]** will set the PGM as a Normally Open (N.O.) contact. *Default: Option **[2]** is OFF*.

8.3 PGM Base Time

SECTION **[004]**: OPTION **[3]**

This feature defines whether the value programmed as the PGM Timer (refer to

section 8.6 on page 35) will be in minutes or seconds. Enable option **[3]** to set the PGM Timer in minutes. Disable option **[3]** to set the PGM Timer in seconds. *Default: Option **[3]** is OFF.*

8.4 PGM Activation Event

SECTIONS **[014]** TO **[017]**

The PGM Activation Event determines which event will activate DGP2-ACM1P's on-board PGM output. The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # sets the range within the Feature Group. Use the PGM Programming Table in the Digiplex Series Modules' Programming Guide to program the PGM Activation Event. To program the Event Group, Feature Group, Start # and End #, enter the corresponding section and then enter the required data.

	Event Group	Feature Group	Start #	End #
PGM	[014]	[015]	[016]	[017]

Only Event Groups 000 to 055, 062 and 063 can be used to program the DGP2-ACM1P's PGM Activation Event.

8.5 PGM Deactivation Event

SECTIONS **[018]** TO **[021]**

If the PGM Deactivation Option is set to follow the PGM Deactivation Event (refer to section 8.1 on page 33), the PGM will return to its normal state when the event programmed in sections [018] to [021] occurs. The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # sets the range within the Feature Group. Use the PGM Programming Table in the Digiplex Series Modules' Programming Guide to program the PGM Deactivation Event. To program the Event Group, Feature Group, Start # and End #, enter the corresponding section and then enter the required data.

	Event Group	Feature Group	Start #	End #
PGM	[018]	[019]	[020]	[021]

Only Event Groups 000 to 055, 062 and 063 can be used to program the DGP2-ACM1P's PGM Deactivation Event.

8.6 PGM Timer

SECTION **[012]**

If the PGM Output is set to follow its PGM Timer (refer to section 8.1 on page 33), the value entered in section [012] represents the

amount of time that the PGM will remain activated. To program the PGM Timer, enter a 3-digit decimal value from 001 to 255 in section [012]. Depending on the PGM Base Time (refer to section 8.3 on page 33), the PGM Timer will either be in seconds or minutes. *Default: 005.*

8.7 PGM Test

SECTION **[030]**

Entering section [030] will activate the PGM for 8 seconds to verify if the PGM is functioning properly.

9.0 Illustrations

Figure 9.1: DGP2-ACM1P LED Indicators

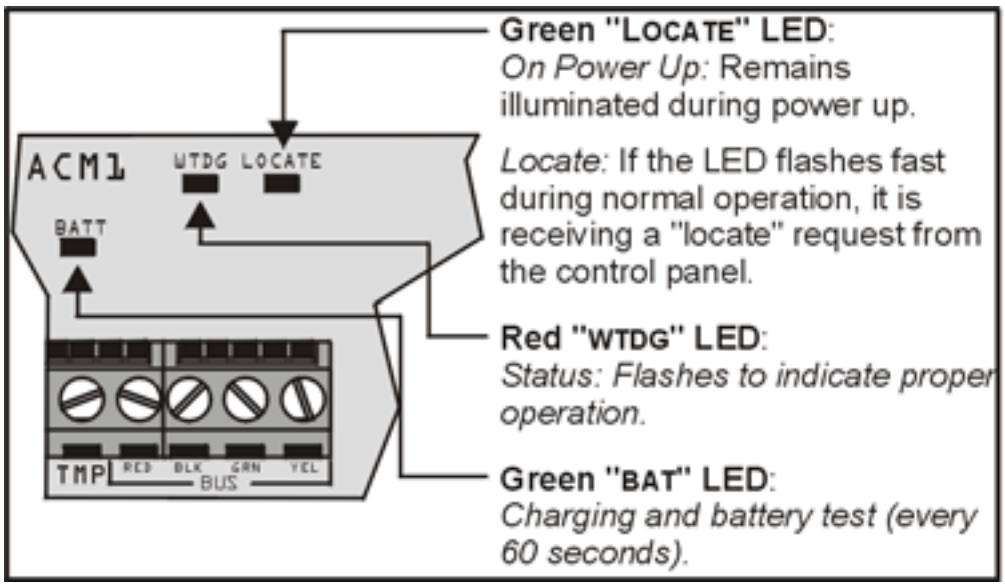


Figure 9.2: Connecting the Tamper Switch

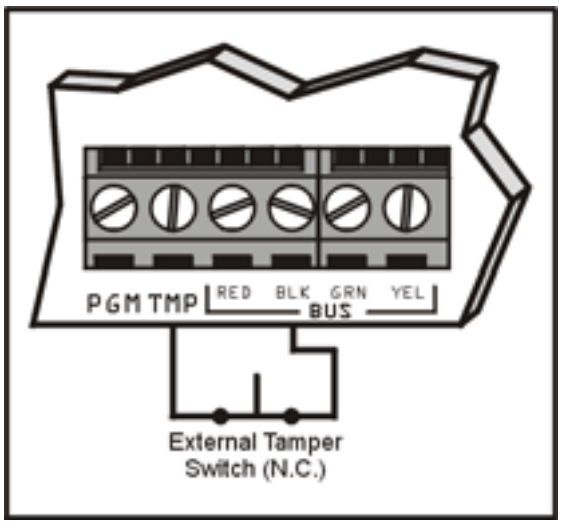


Figure 9.3: Connecting the DGP2-ACM1P

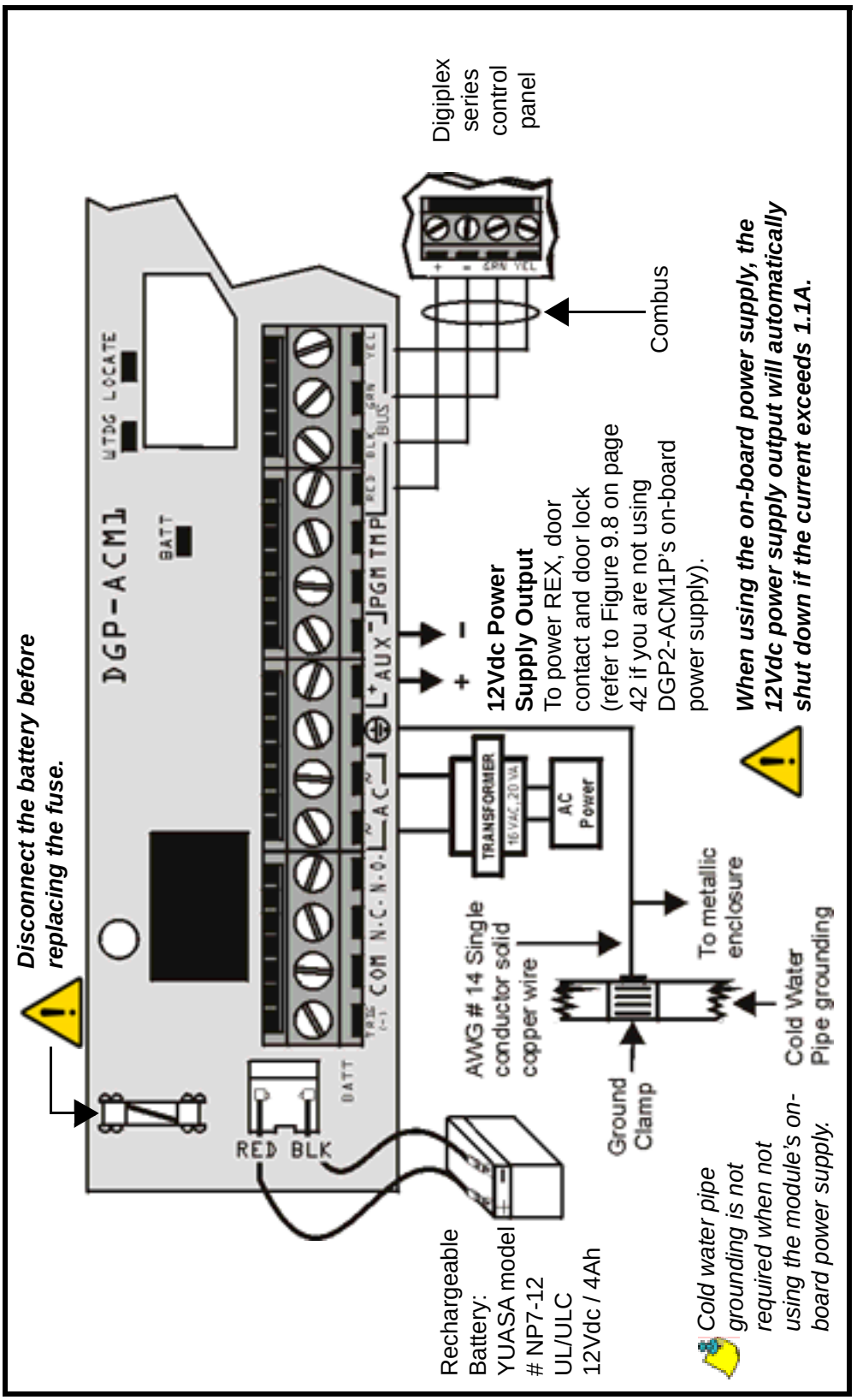


Figure 9.4: PGM Connection

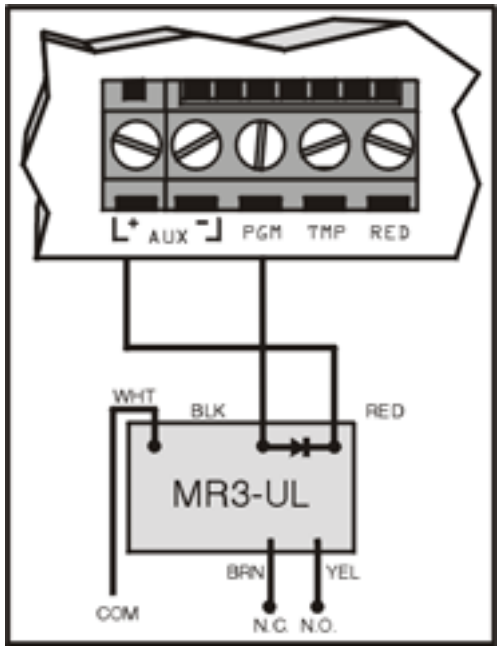


Figure 9.5: Connecting the External Negative Trigger

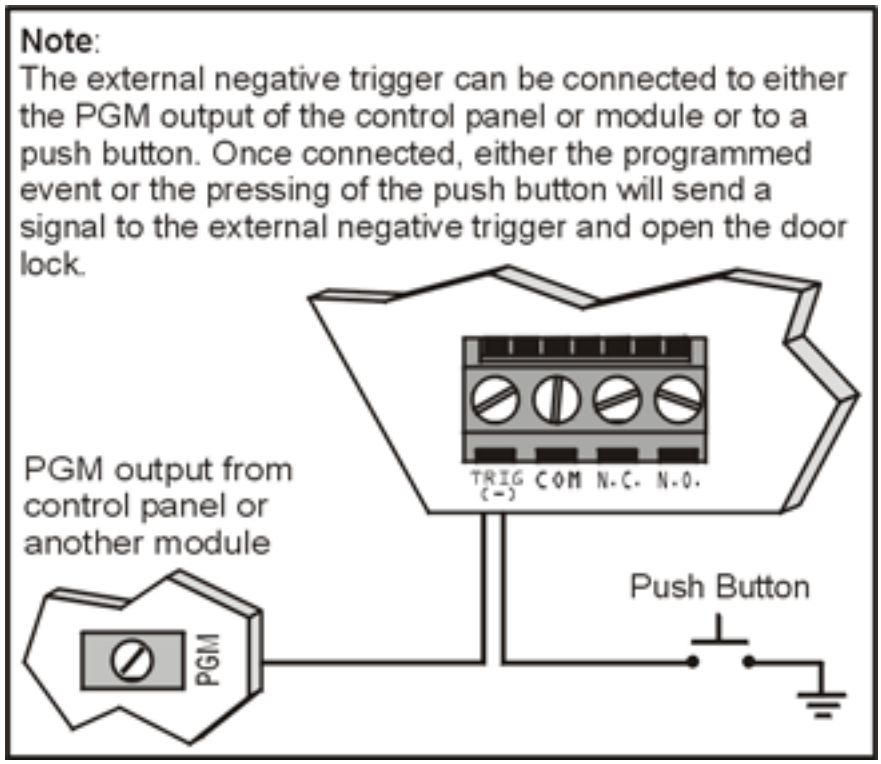


Figure 9.6: Connecting a Routing Cable

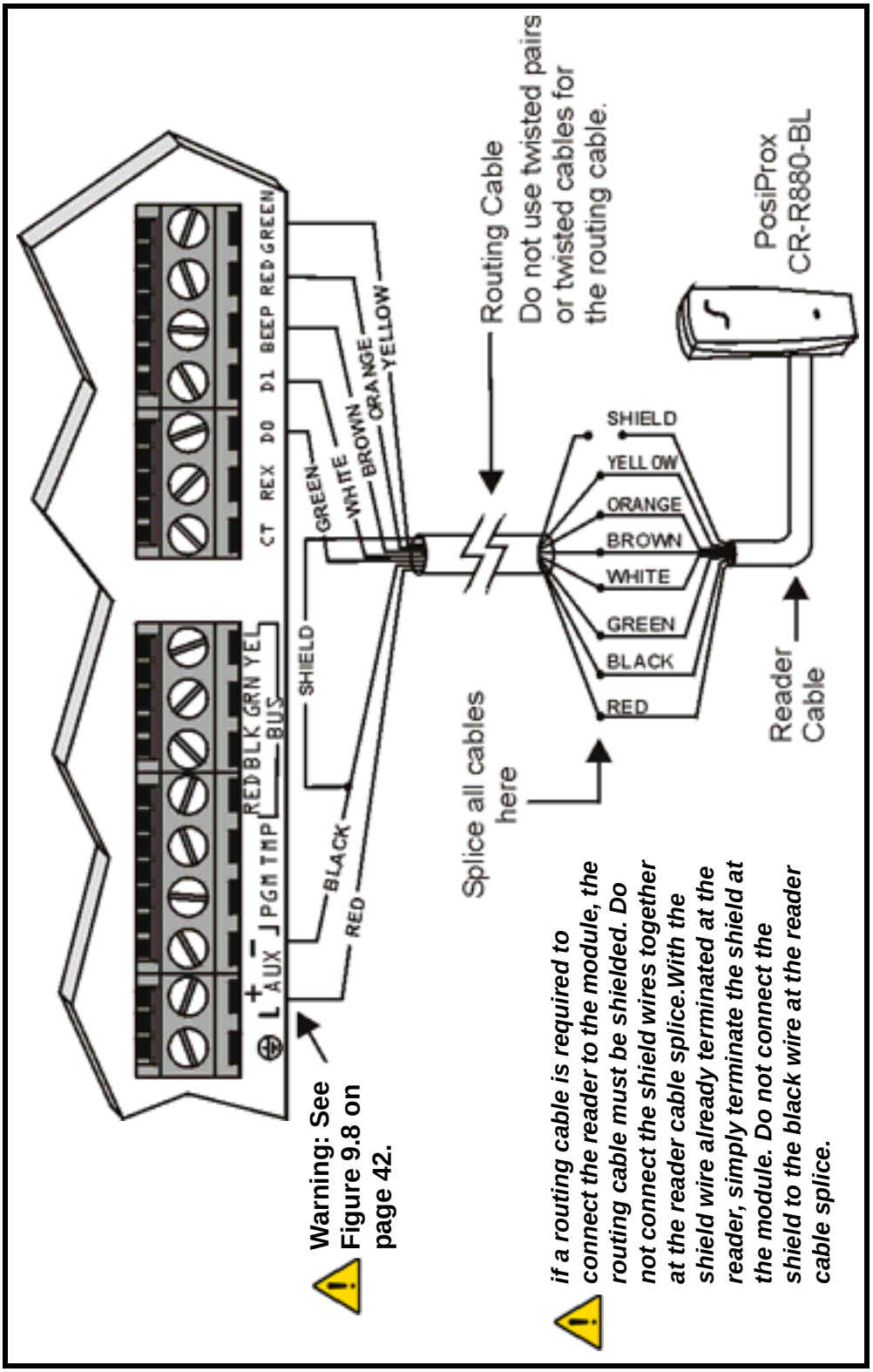


Figure 9.7: Connecting Access Control Devices

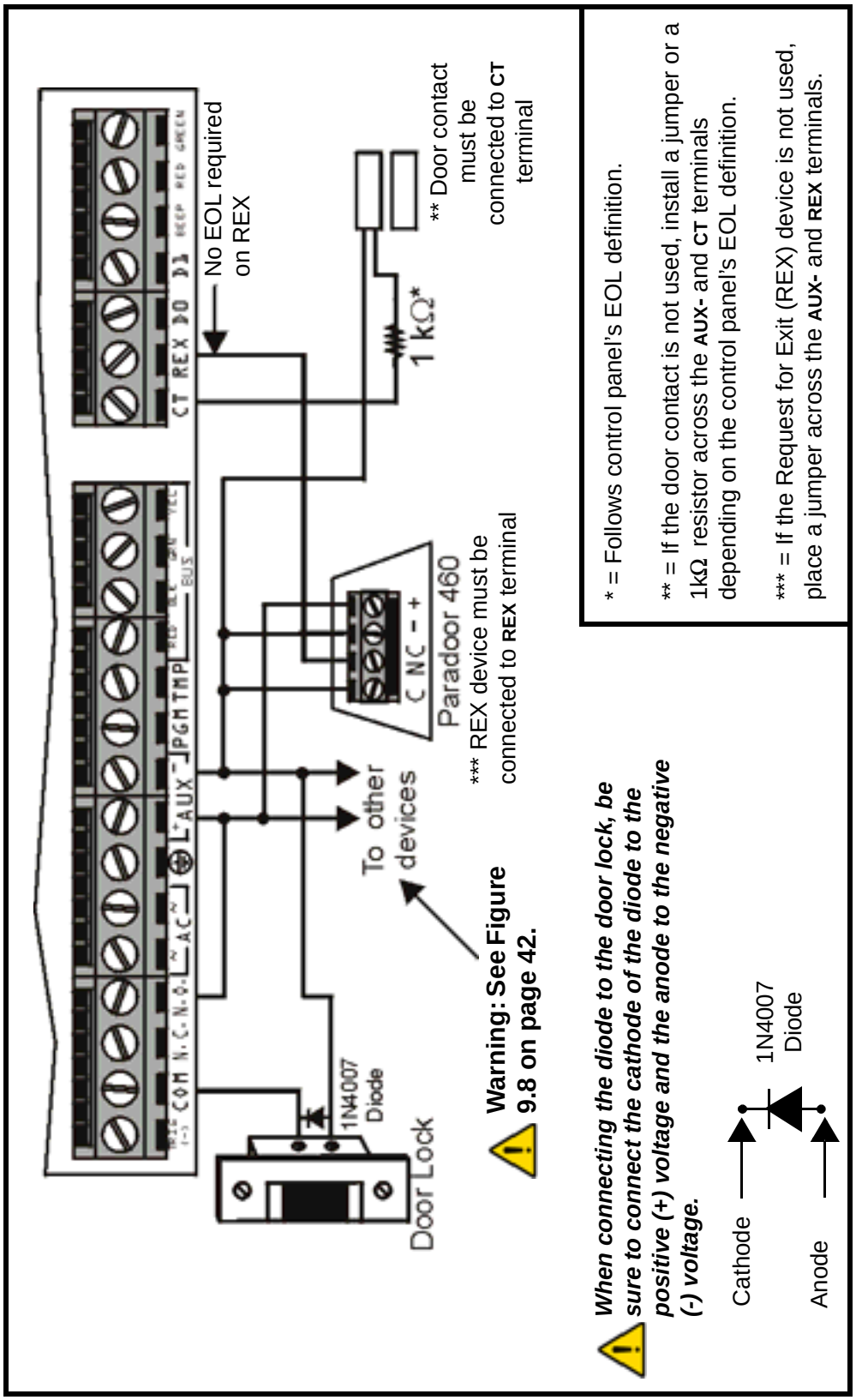
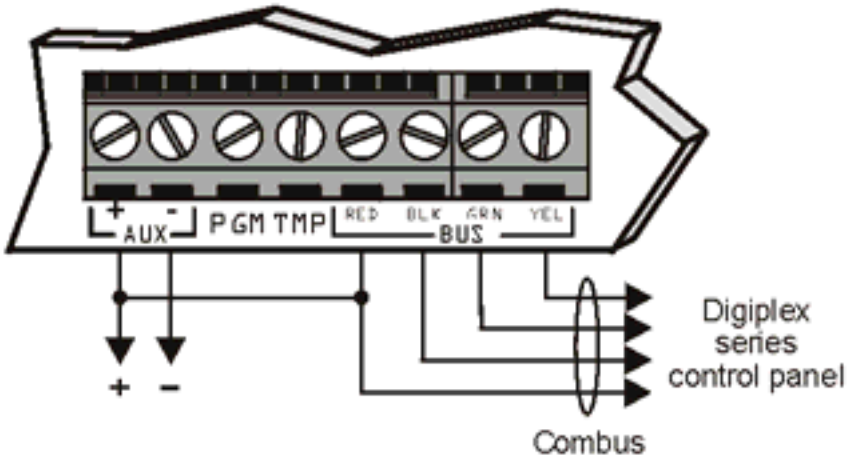


Figure 9.8: Connecting the DGP2-ACM1P Using an External Power Supply

Warning: If you are not using the DGP2-ACM1P's on-board power supply, connect the "red" of the bus to the "aux+" in order to power the module. Please note that in such cases, the DGP2-ACM1P is powered by the bus. Connect the devices to either the DGP2-ACM1P's auxiliary output (aux) or to an external power supply. Also, if the on-board power supply is not being used, you must disable DGP2-ACM1P's *AC and Battery Supervision* feature (refer to page 21).



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