

Access Control Module V4.1



Installation Instructions P A R A D O X[®] paradox.com Printed in Canada 09/2007 ACM12-EI01

Introduction

The Access Control Module (DGP-ACM12) is designed to be used with the Digiplex EVO System control panels. Each DGP-ACM12 allows you to connect a reader, a REX device, 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.

What's New 4.1

• The backlight intensity defaults in sections [025] and [026] are now 003

What's New 4.0

- Allows access with Card and Pin and Card or PIN when used with a DGP-R915 or CR-R885-BL
- Allows arming with PIN or Card and PIN when used with a DGP-R915
 Transformer Sharing: Use one transformer to power multiple modules with transformer sharing. Respect the maximum power output of the
- with transformer sharing. Respect the maximum power output of the transformer. See Figure 1 for more information.

Technical Specifications

AC Power:	16Vac, 20/40VA, 50 - 60Hz
Aux. Power:	12Vdc, typical 600mA, 1A 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 Any EVO control panel

Installation

The module is connected to the control panel's combus as shown in Figure 1. Please refer to the control panel's Programming Guide for the maximum installation distance. Devices connected to the PGM output must be connected as shown in Figure 2. Refer to Figure 5 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 disabled, use a jumper. If the REX device is not used, place a jumper across the REX and AUX- terminals.

AC Power

Use a 16.5Vac (50/60 Hz) transformer with a minimum 20VA. as shown in Figure 1. Do not use any switch-controlled outlets to power the transformer.

Backup Battery

To power 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 1. Connect the battery after applying AC power.

A Inverting the polarity when installing the battery will blow the battery fuse.

Connecting the External Negative Trigger

The DGP-ACM12 comes with an external negative trigger. You can use a PGM from the control panel or another module to release the access control door lock. The external negative trigger can also be triggered using a push-button. When the push button is pressed, the door will unlock. The PGM or push-button must ground the negative trigger. Connect the push-button as shown in Figure 2.

LED Display

AC (Green):	On when receiving AC power.
BATT (Green):	On when charging and during battery tests.
AUX (Yellow):	On when auxiliary output is active.
ERROR (Red):	Indicates a problem with the module.
RX (Green):	Flashes when receiving information from the panel.
TX (Green):	Flashes when transmitting information to the panel.

Table 1: Special Display

Error	RX	ТХ	Condition
ON	OFF	OFF	Combus is shorted / No clock / No data
ON	OFF	ON	Wrong data / Invalid Combus address (Too many modules)
ON	ON	OFF	Future Use
ON	ON	ON	Combus lines reversed (YEL and GRN)
Flash			Combus power is too low

Connection Diagrams

Figure 1: Connecting the power and combus





Figure 2: Additional Connection Information



Figure 3: Connecting a 4-Wire Reader (DGP-R910 / DGP-R915)



DGP-R910 (not shown) is connected the same way

Figure 4: Connecting a 7-Wire Routing Cable



CR-R885-BL (not shown) is connected the same way









SECTION	I [001]: Partition Assignment			SECTION	[002]: General Options 1	
Option		OFF	ON	Option		
[1]	Partition 1	Disabled	riangle Enabled	[1]	Tamper Input	
[2]	Partition 2	Disabled	riangle Enabled	[2]	Battery Charging Current	
[3]	Partition 3	Disabled	riangle Enabled	[3]	Reader's red LED to follow p status	
[4]	Partition 4	□ Disabled	riangle Enabled	[4]	Reader's beeping to follow p status when option [3] is ON	
[5]	Partition 5	Disabled	riangle Enabled	[5]	Card activates door unlocked	
[6]	Partition 6	Disabled	riangle Enabled	[6]	Door will relock	
[7]	Partition 7	□ Disabled	riangle Enabled	[7]	Reader's green LED for Acc Granted	
[8]	Partition 8	□ Disabled	riangle Enabled	[8]	Unlock on Request for Exit (
SECTION	I [003]: General Options 2			SECTION	I [004]: PGM Options	
Option		OFF	ON	Option		
[1]	Door Left Open Alarm	riangle Disabled	Enabled	[1]	PGM Deactivation After	
[2]	Door Left Open Pre-alarm	Disabled	riangle Enabled	[2]	PGM Normal State	
[3]	Door Left Open Alarm	Silent	riangle Audible	[3]	PGM Base Time	
[4]	Door Left Open Alarm follows	△ Alarm Restore	□ Beep Timer	[4] & [5]	Special	
[5]	Door Forced Open Alarm	riangle Disabled	Enabled		Card Only	
[6]	Door Forced Alarm	Silent	riangle Audible		PIN Only	
[7]	Door Forced Alarm follows	△ Alarm	Beep Timer		□ Card and PIN △ Card or PIN	
[8]	Reader Access Feedback		∆ Visual & audible	[6]	Reader Locate Feedback	
				[7]	Unlock Door on Fire Alarm	
				[8]	AC and Battery Supervision	
Sectior	n Data			Description		
[005]	// (000 to 255 x 1 minute; 0	00 = Instant)		AC failure re	port delay	
[000]	_/_/_ (001 to 255 seconds)	,		Door Unlocked Period		
[007]	/ / (001 to 255 seconds add	ed to section I	0061)			
[008]	/ / (001 to 255 seconds))		en Interval	
[000]	(001 to 255 seconds)			Door Loft Op		
ໂດດລ]	Time to start pre-alarm before alar	m is triggered				

d	[1]	[1] Tamper Input						\triangle	Dis	abled	Enabled	
d	[2]	Battery Charging Current						\triangle	350)mA	🗆 850mA	
d	[3]	[3] Reader's red LED to follow partition's Disabled status							riangle Enabled			
d	[4]	[4] Reader's beeping to follow partition's Disabled							riangle Enabled			
d	[5]	Card activates door	unl	locke	ad s	che	dule	۰ ۱	Dis	abled	∧ Enabled	
d	[6]	Door will relock	ann	00/10		0110	aure		Imr	ne-	When	
	[-]								dia	telv	closed	
d	[7]	[7] Reader's green LED for Access Disabled Granted						riangle Enabled				
d	[8]	Unlock on Request	for	Exit	(RE	X)			Dis	abled	riangle Enabled	
	SECTION	[004]: PGM Option	ns									
	Option							OF	F		ON	
d	[1]	PGM Deactivation A	After	r				\triangle	Dea tior	activa- i Event	PGM Timer	
d	[2]	PGM Normal State						\triangle	N.C) .	□ N.C.	
е	[3]	PGM Base Time						\triangle	1 s	econd	🗆 1 minute	
	[4] & [5]	Special						[4]			[5]	
d		Card Only						OF	F		OFF	
e		PIN Only						٥N	1		OFF	
		Card and PIN						OF	F		ON	
		riangle Card or PIN						ON	1		ON	
&	[6]	Reader Locate Feed	dba	ck				\triangle	Vis	ual	Visual & audible	
	[7]	Unlock Door on Fire	Ala	arm				\triangle	Dis	abled	Enabled	
	[8]	AC and Battery Sup	erv	isior	1			\triangle	Ena	abled	Disabled	
	Description										Default	
	AC failure rep	port delay									030	
	Door Unlocke	ed Period									005	
	Door Unlocke	ed Period extension									015	
	Door Left Op	en Interval									060	
	Door Left Op	en Pre-Alarm Timer									015	
	Beep timer for	or Door Left Open Al	larm	n							005	
	Beep timer fo	or Door Forced Oper	n al	arm							005	
	PGM timer										005	
	End Time		s	м	т	w	т	F	s	н		
	:		1	2	3	4	5	6	7	8		
	:		1	2	3	4	5	6	7	8		

 \triangle = Default setting

ON

OFF

SECTION	I [022]: Safe Mode Options			SECTION	I [031] PGM Options 2		
Option		OFF	ON	Option		OFF	ON
[1]	Safe Mode	Disabled	riangle Enabled	[1]	Flexible PGM Deactivation Option	$ riangle \mathbf{PGM}$ Timer only	Timer / Deactivation event
[2]	Safe Mode Access	Disabled	riangle Enabled	[2]	Reload Timer on Activation Event	riangle Don't Reload	Reload Timer
[3]	Reader Safe Mode Feedback	riangle Visual	□ Visual & audible	[3] to [8]	Future Use	□ N/A	□ N/A
[4]	Unlock Door in Safe Mode	riangle Disabled	Enabled				
[5]	Access Cards in Safe Mode	riangle Safe Cards only	Any Cards				
[6] to [8]	Future Use	□ N/A	□ N/A				

Section	Data	
[023]	_/_/_	(001 to 024 hours; 000 = Disabled)
[024]	_/_/_	(001 to 255 seconds; 000 = Follow REX)
[025]	_/_/	(000 to 003)
[026]	_/_/	(000 to 003)
[027]	_/_/_	(000 to 003)
[028]	_/_/_	(000 to 255 minutes; 000 = instant)
[029]	_/_/_	(000 to 255 minutes)
[030]		Test PGM: Activates the PGM for 8 seconds to verify in
[032]	_/_/_	(000 = steady, 001 to 254 = pulsed (increments of 8ms
[040]		Access Card Serial Number Display: View an acces
		When the DGP-ACM12 is in access card display mode
[061]		Assign Safe Mode Access Card 1 (Present Card 3 Times)
[062]		Assign Safe Mode Access Card 2 (Present Card 3 Times)
[063]		Assign Safe Mode Access Card 3 (Present Card 3 Times)
[064]		Assign Safe Mode Access Card 4 (Present Card 3 Times)
[070]		Delete All Safe Mode Access Cards
[071]		Delete Safe Mode Access Card 1
[072]		Delete Safe Mode Access Card 2
[073]		Delete Safe Mode Access Card 3
[074]		Delete Safe Mode Access Card 4
Warranty For complete wa warranty terms a	rranty informations.	tion on this product please refer to the Limited Warranty Statement found c
We strongly advi	ise that you rev	view and take into consideration the "Limitations of Alarm Systems" docum
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For technical support in Canada or the U.S., call 1-800-791-1919, Monday to Friday from 8:00 a.m.	. to 8
For technical support outside Canada and the U.S., call 00-1-450-491-7444, Monday to Friday from	n 8:00
Please feel free to visit our website at www.paradox.com.	

		Event Group		Feature	e Group	Start #		End #		
		Section		Section		Section		Section		
ſ	PGM Activation	[014]	//	[015]	_/_/	[016]	_/_/	[017]	//	
	PGM Deactivation	[018]	//	[019]	_/_/	[020]	_/_/	[021]	//	
	A Only Frank Oracing 200 to 055, 060 and 062 can be used to pregram the medulate DOM									

Only Event Groups 000 to 055, 062 and 063 can be used to program the module's PGM.

Start Time

____ : ____ : ____

____:

[010] _/_/_ (001 to 255 seconds)

[011] _/_/_ (001 to 255 seconds)

[013] Door unlock schedule

Schedule A:

Schedule B:

[012] _/_/_ (000 to 255; refer to option [3] in section [004])

Description	Default
Safe Mode Door Unlocked Period	000
REX Unlocked Period	000
Red LED Brightness	003
Green LED Brightness	003
Buzzer Frequency	001
AC Restore Report Delay	005
Stay Lock Delay	000
ng properly.	

if the PGM is functionin s), 255 = pulsed fire) PGM Output type

000 ss card's serial number displayed on any LCD or Grafica keypad on the combus. e, the door connected to the module cannot be accessed.

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