

DG-2000 Manager System Software Operation Manual





Installation Guide

1. Click the setup file for GEM DG 2000 Manager System. Follow the instructions to setup.



2. Double Click the icon for GEM DG 2000 Manager System. First user needs to go through an initialization process.



3. The GEM DG 2000 Manager System requires the system to install Microsoft Access 2007 or above, so that the software can store system parameters and user data. Click "Next".

SEM DG 2000 Manager Setup Wizard	and the second second
Welcome to GEM DG 2000 Manager!	
Please select the database type that you want to use!	
Microsoft Access	
Cencel + Bick Eest +	Bauh

4. If user doesn't have a database setup for GEM DG 2000 Manager System, please choose "I have no database" and click "Next".



The GEM DG 2000 Manager System will use installation folder by default to save the database file. Click "Next".

losse sel	ort the nath name t	that you want to		
Database	SS)(GEM(GEMDG/2	000 Managerigm	d_system mdb	
assword				

5. Choose the language for the user interface. For configuring standalone controllers, please choose the running mode as "Normal" and click "Next".

EM DG 2000 Manager Setup Wizard	
System running parameters	
1 200/2002	
Simplified Chinese(GB)	
Traditional Chinese(Big5)	
English	
Running mode	
Normal	
Database maintenance	
Cancel «Back Ment»	Baish

6. Click "Finish" to finish the initialization process.

GEM DG 2000 Manager Setup	Wizard			
Thank you!				
Congratulation/ Set Click [finish] to save	ip had finished e setting for the	succesfull GEM DG 200	10 Manager!	
	Cancel	(Bsck	[] Best +	Bnish

7. Input the Serial Number and Release Code provided by distributor.

Release

W Operation Guide

When user executes GEM DG 2000 Manager System, need to enter User and password. The default user account is "**admin**" with empty password, but user can always change it in the system.

2	User	edmin
J.	Password	
		OK Cancel

Setup a link and configure controllers

Controllers are normally connected in the master-slave mode one by one. So each controller should first set up with a unique ID. The ID configuration procedure for the controller should be under programming mode, press: *7 + ID + # + ID + #. For example, if you want to set an ID to '2', you need to press "*72#2#", then we can say all the controllers are in the same link. Click the "Link" button to create a link.



Installation Diagrams

Use PIN1-1 and PIN1-2 of DG-2000US / DG-2100EU to connect to PC or connect to next controller, and terminate resistors of 120 Ohms to be used on the end of long RS-485 loops.



1. Click the "Add New" button to create a new link. Make sure you input a correct COM port number. And then click on "Save" button to show the connection status of the COM port.

	Link definition				
'Add New" 🔫					
	Link ID				
	Comm Port				
	Link description				

Lin	k definition		The second	- D - X
ave" 🔫 📕		27	XI	
	Link ID	1		
	Comm Port	4		
	Link description	DG-20	00	
		0	Open comport succes	x ssful!
			確定	

2. Now we setup the link for all the controllers on this link. Then we need to add controllers to this link. Click "Scan" button.

'Scan" 🔫	GEM DG 2000 Manager System View Data setup Communication Enquiry Communication Enquiry Login Enquery Link Scan Parameter Tim	Help	por Exit
	GEM		
	GEM		123
	DG-2000	1 2 3 • 4 5 6	4 5 6 1 7 *
	Manager	789 *0# Gem	GEM
	Current user:admin Login time:2015-04-07 09:20:29		ai.

	Scan controller		and the second se		
"Add Controller"	- P 🔤 🙅	1			
	Please select a link		1 •		
	Comm port:		4		
	Status:		Open comport successful		
	Controller ID	Dex	niption	Status	
	Ready				.1

3. Select the link which just created and click "Add Controller" button. (You can add one controller with an ID or multiple controllers within an ID range. For demonstration we add one controller with ID of "1" and click "Save". If you need to add several controllers, you can use ID range to add them.)

🖱 ID Range	1	То	127]
Add Controller	4		Add	Delete
Link ID	2 0	ontroller ID		
	4			

4. Click "Scan" button to check the connection. If the status shows ' $\sqrt{}$ ', it means the connection is OK.

Please select a link Comm port:	1 • 4		
Controller ID	Description	Statue	
4		7	

5. Click the "Parameter" button to set the basic parameters of the controller. Select the controller under the link that was created above and click "Edit" button to edit the parameters.

arameter" 🚤 🔛 🖅 🗐	
	1[DG-2000]-4
□ - ∰ All Links □ - ∯ 1[DG-2000] - → ∰]	Controller paramters Alarm Door obnormal Door open too long Over time: Entry mode User card/Entry password Global parsword Hold electric lock(sec.) 30 Controller description



6. Users can enable alarm functions. The timeout for converting door ajar to alarm means if the door still opens for the timeout period after electrified lock release time, the controller will output alarm signal. In the following picture, if the door opens for 10+15=25 seconds, the controller will output alarm.

Basic paramters			
60 6 2 🚽			
	1[DG-2000]-4[DG-2000 test]		
⊡-∰ All Links ⊡-∯ 1[DG-2000] ≫ 4[DG-2000 text]	Controller paramters Alarm Door abnormal Door open too long Over time: 15		
	Entry mode		
	User card/Entry password	•	
	📝 Global password	123456	
	Hold electric lock(sec.)	10	
	Controller description	DG-2000 test	
Ready			

7. For standalone controller, user can choose the entry mode to enter the door. User can also enable a Door common access password for all cardholders.

Basic paramters		Basic paramters	
	1[00-2000]-4		1(0-0-2000)-4
in ∰ Altaka in ∰ ([Do-2000] - → 4	Controller parameter Altern Altern Door open too long Over time: 15 Estity mode Reac card.Entry paravorat Her card.Entry paravorat Her card.Entry paravorat Reac parameter Her card.Entry paravorat Her card.Entry paravorat Reac parameter Her card.Entry paravorat Her card.Entry paravorat	= ∰ ATLas: = ≴ (D0-200) - → 4	Controller parameters Altern Door open too long Over time: 15 Entry mode @ Door common access password: 1234500 Hold electric lock/orc.) 10 Controller description D9-2000 hrs
Ready		Ready	

8. Exit Basic Parameter setting, click "Time zone" button in the main window. For each time zone, there are two time slots for setting. Please pay attention to the notes at the bottom of each block to prevent opposite settings.



 For refreshing the clock of controllers, find the "Controller Clock" menu as shown in the following picture. Click "Send" button to reset controller's clock as PC's clock.



- 10. User can also reset the controller. The operation is similar as above. Please go to the "Controller → Controller Parameter → Reset Controller" menu.
 - To make the parameter settings effective in the controller, user needs to send the parameters to the controller. It will be described in the following sections.

Cardholder Maintenance

1. For adding new cardholder for the controllers, we first need to define the door group for different controllers. Click the "Door Group" in the menu.





2. Click "Add new" button to create a new door group. Select the controllers you want to make them into the same group. The controllers in the same group shares authorities.

"Add new"	Door Group	
	Group Code	
	Link ID 1 v	
	Controller ID Controller description 4 DG-2000 test	

3. After creating the door group, user can click "Search" button to review all the door group information. We have a door group in the list.

1001	code		Search
	Door code	Description	
F.	DoorGroup1	Test Group 1	

4. Now we can assign cards or passwords for the door groups. Click "Cardholder" in the menu.



5. Click "Add new" button to create a new user card or password.

"Add new"	Cardholder maintenance	XI		
	General information		Employee name.	
	Door access right information (a) Global door group >>>	DoorGroup1	*	
	Link ID Controller no.	Controller description DG-2000 test	Cerd status	

6. Select "User card" or "password" in the drop down list and input the card/password and Employee name information. Click "Save".

lser card	• 195	9445115	Employee name.	GEM Gianni
oor acces Global	s right information door group >>	DoorGroup1	•	
ink ID	Controller no.	Controller description	Card status	
2 1	4	DG-2000 test		

7. After click "Exit" button, GEM DG 2000 Manager System will ask user to send the cardholder information to the controller. Actually the parameter setting also has not been sent to the controller yet. To make all the settings in the GEM DG 2000 Manager System effective in the controller, user needs to send the settings to the controller. Click "Yes" to enter the dialogue.

User can also enter it through menu as shown in the following picture.

System View Data setup	Communication Enquiry Help	5			
2 1	Controller parameters		Link		
Login Enquery Link	Display controller information	•	Scan contro	llers	
	PC open door Upload Data		Reset contro Controller b Global time	oller asic parameters zones	
O PAA			Controller c	lock	
GEM			Send all par	rameters to controllers	
DG-20	000	1 4 4	Send a	all parameters to controllers 1 2 3 4 5 6 7 8 9 * 0 #	THEFT
Mai	nager	/ (* (GEM	

8. For "Send Cardholder Information", there are three update modes (Only send new cardholders, Send all cardholders, Send all cardholders and execute delete commands). Choose "Select all" and click "Send" button on the top left to send.

Please select the combust All Links () () () () () () () () () () () () () (Select parameters Select parameters Select parameters JUpdate controller clock Select intercone information Select cardholder information
	Send mode Only send card holder's change Retransmission all card holder Retransmission all card holder with delete option

Records Retrieve and Report

1. In daily operation, all the records and alarms are saved in the controller. After the controller is connected, user can upload the records onto the database in PC by clicking "Upload" button.



2. Click "Upload" button to retrieve records. After retrieving the records, GEM DG 2000 Manager System can be used to generate reports on records.

"Upload"			
E-VIE ALLONS	Nor	rmal reclaiming 1[DG-2000]4[DG-2	000 test]
4[DG-2000 test]	Card no. Name	Entry status In/Out door	In/Out time
	1959445115 GEM GL 2222 1959445115 GEM GL 1959445115 GEM GL	Valid entry rec 1-4 Inveild entry 1-4 Inveild global 1-4 Valid entry rec 1-4 Valid entry rec 1-4	2015-04-07 10.2 2015-04-07 10.2 2015-04-07 10.2 2015-04-07 10.2 2015-04-07 10.2
	Door	Event	Time
	1-4 1-4 1-4	Door open too long restore Caused by door open too long door abnorml restore	2015-04-07 10:2 2015-04-07 10:2 2015-04-07 10:2

3. There are 4 types of Enquiry methods in the system. "Entry Records Audit Report" and "Alarm and Events Report" are used to query individual records. "Entry Record" and "System alarm event" are used to generate analysis report for records.



4. The following shows typical query results.

Sorting order	Ascending •		Sorting	style Entry time	•	
Data range Query condition			IT Sk	w records in the data	TROOM	
Carl no.				0		
🕐 Name			From	2015/ 4/ 1	Occur tame	
Controller		-		1010 al 1 a	00.00 00 [2]	
Rema	k Blank for all		To	2015/ 4/ 7 -	22:00:00	
Link ID	Controller ID	Card no.	Emplo	vee	Entry Status	In/Out date and tir

5. For generating reports on entry records, click "Entry Records Audit Report" on the menu. User can filter different report types for different purposes like attendance checking or authority checking. Click "Preview" button to generate report.

Staff Information	E Find	Select ALL	Clear	Device Information	Find	Select ALL	Clear	Record Status	Select ALL	Clear	
Card No	Staff Name			Link ID	Control ID	Control Desi	ription				
• m 199944511	GEN Ganni			Dute 2015-04-0 To 2015-04-0 W Al record O The 1st And The O The 1st Record	7 📴 + 00:0 7 🔄 + 23:1 Last Record	4 Do-2000 ter 10 [5] 19 [5]	a.	✓ control type	fd(card) bf(card + global pas y password dentry password ssword ough computer co	asword) ntrol	
Sorting Order	Sorting Fields										
Ascending Descending	Card No, Date/Ter	Time Cunk ID,	Control ID, Car Control ID, Dat Link ID, Contr	d No, Date/Time 💮 St :e/Time ol ID, Date/Time	aff Name, Link	ID, Control ID,	Date/Time	Preview	Print	Ext	+ "Prev

6. User can click "Export To" to create Excel file for future editing.

Print	Magins Orientation Size	First Previous Next P Page Page	age Last Page	Zoom Out Zoom In Export To	Exit			.xpo
men Print	Print document setting	A Navigatio	n	Zoom Expor	Exit Print			
							i i	
		(GEM Gia	nni				
		Ent	ry Records	Report				
intry Date Range 2	015-04-072015-04-07							
Jondition L Record A	ink ID + Control ID + Date/time II record	(Ascending)				Print Time: 2015-04-09 15:57:36		
Card ID	Staff Name	Date	Control ID	Occur At	In / Out	Entry Status		
	GEM Gianni	2015-04-07 10:21:30	4	DG-2000 test	Out	Valid entry records(card + global pas]	
1959445115	GEM Gianni	2015-04-07 10:22:14	4	DG-2000 test	Out	Valid entry records(card + global pas		
1959445115 1959445115		2015 04 07 10 22 22	4	DG-2000 test	Out	Invaild global entry password		
1959445115 1959445115 1959445115	GEM Gianni	2015-04-07 10:22:32			0.4	Valid entry records(card + global pas	1	
1959445115 1959445115 1959445115 1959445115	GEM Gianni GEM Gianni	2015-04-07 10:22:32	4	DG-2000 test	001			
1959445115 1959445115 1959445115 1959445115 Total Records Count 4	GEM Gianni GEM Gianni	2015-04-07 10:22:45	4	DG-2000 test	Out		1	