

2211TW V3.0.0

iD-GRIDM Gateway Module User Manual

DAUDIN CO., LTD.

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1. Gateway Module List

Product No.	Description	Default IP address
GFGW-RM01N	Modbus TCP-to-Modbus RTU/ASCII gateway module, 4 Ports	192.168.1.20
GFGW-RM02N	Modbus TCP-to-Modbus RTU/ASCII gateway module, 1 Port	192.168.1.20

Product Description

GFGW, Modbus Gateway series is designed for industrial applications. It is an open industrial device for installation in a housing provided on site. It is a standard Modbus gateway that converts between Modbus TCP and Modbus RTU / ASCII protocols. For TCP masters, it supports up to 247 RTU / ASCII slaves. And vice versa. The circuit design and all components of the GFGW series meet the latest requirements and standards of UL, CE and RoHS. It has a complete circuit protection design to withstand overload, overvoltage and short circuit, and to avoid damage and malfunction caused by improper operation.





1. THIS DEVICE IS FOR INDOOR USE ONLY, DON'T PUT OR USE IT IN HIGH TEMPERATURE AND HIGH MOISTURE ENVIRONMENT.

CET EQUIPEMENT EST DESTINE A UN USAGE INTERIEUR UNIQUEMENT NE PAS STOCKER OU UTILISER DANS UN ENVIRONNEMENT A HAUTE TEMPERATURE ET HAUTE HUMIDITE.

- 2. AVOID FALLING AND BUMPING OTHERWISE THE ELECTRICAL COMPONENTS WILL BE DAMAGED. ÉVITEZ DE TOMBER ET DE VOUS ÉCRASER, SINON LES COMPOSANTS ÉLECTRIQUES SERONT ENDOMMAGÉS
- 3. DON'T TRY TO DISASSEMBLE OR OPEN THE COVER UNDER ANY CIRCUMSTANCE IN ORDER TO AVOID DANGER.

NE TENTEZ JAMAIS DE DEBALLER OU D'OUVRIR LE COUVERCLE POUR EVITER TOUT DANGER.

- 4. IF THE EQUIPMENT IS USED IN A MANNER NOT SPECIFIED BY THE MANUFACTURER, THE PROTECTION PROVIDED BY THE EQUIPMENT MAY BE IMPAIRED. SI L'APPAREIL N'EST PAS UTILISE DE LA MANIERE INDIQUEE PAR LE FABRICANT, LA PROTECTION FOURNIE PAR L'APPAREIL PEUT ETRE ALTEREE.
- 5. THE INSTALLATION THAT THE SAFETY OF ANY SYSTEM INCORPORATING THE EQUIPMENT IS THE RESPONSIBILITY OF THE ASSEMBLER OF THE SYSTEM. L'INSTALLATION DE TOUT SYSTÈME INTÉGRANT CET ÉQUIPEMENT EST LA RESPONSABILITÉ DU CONSTRUCTEUR DU SYSTÈME.
- 6. USE WITH COPPER CONDUCTORS ONLY. INPUT WIRING: MINIMUM 28 AWG, 85°C, OUTPUT WIRING: MINIMUM 28 AWG, 85°C DESTINÉ À ÊTRE UTILISÉ AVEC DES CONDUCTEURS EN CUIVRE SEULEMENT. CABLAGE D'ENTREE: MINIMUM 28 AWG, 85 ° C. CABLAGE DE SORTIE: MINIMUM 28 AWG, 85 ° C.
- 7. FOR USE IN A CONTROLLED ENVIRONMENT. REFER TO MANUAL FOR ENVIRONMENTAL CONDITIONS.

POUR UN ENVIRONNEMENT CONTROLE. REPORTEZ-VOUS AU MANUEL DES CONDITIONS ENVIRONNEMENTALES.

- 8. DISCONNECT ALL SOURCES OF SUPPLY BEFORE SERVICING. COUPER TOUTES LES SOURCES D'ALIMENTATION AVANT DE FAIRE L'ENTRETIEN ET LES RÉPARATIONS.
- 9. PROPER VENTILATION IS REQUIRED TO REDUCE THE RISK OF HAZARDOUS OR EXPLOSIVE GAS BUILDUP DURING INDOOR CHARGING. SEE OWNERS MANUAL.

UNE VENTILATION ADÉQUATE EST NÉCESSAIRE AFIN DE RÉDUIRE LES RISQUES D'ACCUMULATION DE GAZ DANGEREUX OU EXPLOSIFS DURANT LA RECHARGE À L'INTÉRIEUR. VOIR LE MANUEL D'ENTRETIEN.



2. Gateway Module Specification

2.1 GFGW-RM01N

Technical Specification				
Module Type	Modbus TCP Gateway			
Voltage Supply	5 VDC via Dinkle Bus			
Current Consumption	400 mA @ 5 V			
Number Of Communication Ports	Ethernet * 2 / RS485 * 4			
Network Interface	RJ45 * 2			
Serial Communication Interface	RS485 (push-in contact)			
Communication Protocol	Modbus TCP / RTU			
Genera	General Specification			
Dimension (W*D*H)	20 x 100 x 97mm			
Weight	84g			
Ambient temperature (operation)	-10+60 °C			
Storage Temperature	-25°C+85 °C			
Permissible Humidity(non-condensing)	RH 95%			
Altitude Limit	< 2000 m			
Ingress Protection (Ip)	IP 20			
Pollution Severity	II			
Safety Approval	CE			
Product Certification	UL 61010-1 & UL 61010-2-201			
Wiring Range (Iec / Ul)	$0.32 \text{ mm}^2 \sim 0.8 \text{ mm}^2 / \text{AWG } 28 \sim 20$			
Wiring Ferrules	DN00210D \ DN00310D \ DN00510D			



2.2 GFGW-RM02N

Technical Specification		
Module Type	Modbus TCP Gateway	
Voltage Supply	5 VDC via Dinkle Bus	
Current Consumption	400 mA @ 5 V	
Number Of Communication Ports	Ethernet * 2 / RS485 * 1	
Network Interface	RJ45 * 2	
Serial Communication Interface	RS485 via Dinkle Bus	
Communication Protocol	Modbus TCP / RTU	
Genera	al Specification	
Dimension (W-D-H)	20 x 100 x 97mm	
Weight	79	
Ambient Temperature (operation)	-10+60 °C	
Storage temperature	-25°C+85 °C	
Permissible Humidity(non-condensing)	RH 95%	
Altitude Limit	< 2000 m	
Ingress Protection (Ip)	IP 20	
Pollution Severity	Π	
Safety Approval	CE	
Produce Certification	UL 61010-1 & UL 61010-2-201	
Wiring Range (Iec / Ul)		
Wiring Ferrules		



3. Gateway Module Information

3.1 Gateway Module Dimensions

I. GFGW-RM01N



II. GWGW-RM02N





3.2 Gateway Module Panel Information

I. GFGW-RM01N



LED indicator definition

LED	Color	Definition	Status
POW	Green	Power Indicator	On: Power on
			Off: Power off
RIN	Green	Run Indicator	Blinking: System running
KUN			Off: Power off
DCT	Green	Reset Indicator	Blinking: Reset to default setting 3 seconds
KSI			after initiating IP reset
	Ded	Anomaly	On: System anomaly
EKK	Ked	Indicator	Off: Status normal



RS485 port definitions



RS485	Communication pin definitions
1	Serial port A of the first RS485
2	Serial port B of the first RS485
3	Serial port A of the second RS485
4	Serial port B of the second RS485
5	Serial port A of the third RS485
6	Serial port B of the third RS485
7	Serial port A of the fourth RS485
8	Serial port B of the fourth RS485



II. GFGW-RM02N



LED indicator definition

LED	Color	Definition	Status
POW	Green	power indicator	On: Power on Off: Power off
RUN	Green	Run Indicator	Blinking: System running Off: Power off
RST	Green	Reset indicator	Blinking: Reset to default setting 3 seconds after initiating IP reset
ERR	Red	Anomaly indicator	On: System anomaly Off: Status normal

RS485 communication indicator definitions:

RS485	RS485 indicator definitions
1	Serial port A of the first RS485



4. Module Installation/Disassembly

4.1 Installation

- I. Align the red arrow on the side of the module to the arrow on the DIN rail.
- II. Press the module down and the metal clamp will slide (thanks to its spring mechanism)

and grab on the other side of the DIN rail. Continue to push down until the metal clamp "clicks".



*Note: Make sure the red arrows on the module and the rail are pointing the same direction.



4.2 Removal

- I. Use a screwdriver to pull the metal hook sideways and detach the module from the DIN rail.
- II. Remove all modules from the DIN rail in reverse order of installation.





5. iD-GRID M Series Introduction

RTU/ASCII and Modbus TCP. Please choose products and factory controllers to figure your system based on your communication protocol.

5.1 ID-GRID M Components

I. DINKLE Bus

Rail 1 to 4 are defined for power supply and rail 5 and 7 are defined for communication.





DINKLE Bus Rail Definitions:

Rail	Definition	Rail	Definition
8		4	0V
7	RS485B	3	5V
6	—	2	0V
5	RS485A	1	24V



II. Gateway Module

A <u>gateway module</u> converts between Modbus TCP and Modbus RTU/ASCII. The module provides two sets of external Ethernet ports to connect to the controller and the Internet

There are two types of gateway modules available:

4-channel gateway module: Provides 4 RS485 ports to connect to a control module

Single-channel gateway module: No external connectivity for the RS485 ports.

The RS485 signals are transmitted via <u>DINKLE Bus</u> and <u>I/O module</u>.

Gateway module products information:

Product No.	Description
GFGW-RM01N	Modbus TCP-to-Modbus RTU/ASCII gateway module. 4 Ports
GFGW-RM02N	Modbus TCP-to-Modbus RTU/ASCII gateway module. 1 Port

III.Control module

The <u>control module</u> manages <u>I/O modules</u> and sets up the configuration. Provides external RS485 ports to connect to the controller.

There are two types of <u>control modules</u> available:

3-channel control module:

Provides 3 external RS485 ports, suitable for stations with 2 or more <u>control modules</u>. Among the RS485 ports, 2 of them will be connected to the controller and the <u>control module</u> of the next system.

Single-channel control module:

Provides one single RS485 port to connect to the controller, suitable for single-module stations.

Control module products information:

Product No.	Description
GFMS-RM01N	RS485 control module, Modbus RTU/ASCII 3 Ports
GFMS-RM01S	RS485 control module, Modbus RTU/ASCII 1 Port



IV. I/O Module

Dinkle offers different types of I/O modules with different functions:

Product No.	Description
GFDI-RM01N	16-channel digital input module (source/sink)
GFDO-RM01N	16-channel digital output module (sink)
GFDO-RM02N	16-channel digital output module (Source)
GFAR-RM10	8-Channel relay module, grounded
GFAR-RM20	4-Channel relay module, grounded
GFAI-RM10	4-channel analog input module (±10VDC)
GFAI-RM11	4-channel analog input module (010VDC)
GFAI-RM20	4-channel analog input module (0 20mA)
GFAI-RM21	4-channel analog input module (4 20mA)
GFAO-RM10	4-channel analog output module (±10VDC)
GFAO-RM11	4-channel analog output module (010VDC)
GFAO-RM20	4-channel analog output module (0 20mA)
GFAO-RM21	4-channel analog output module (4 20mA)
GFAX-RM10	2-channel analog input module, 2-channel analog output module (-1010VDC)
GFAX-RM11	2-channel analog input module, 2-channel analog output module (010VDC)
GFAX-RM20	2-channel analog input module, 2-channel analog output module (0 20mA)
GFAX-RM21	2-channel analog input module, 2-channel analog output module (4 20mA)



6. i-Designer Parameter Settings and Information

6.1 Gateway Module Connection Setup

I. Gateway Module System Configuration List

Name/Product No.	Description
GFGW-RM01N	Modbus TCP-to-Modbus RTU/ASCII gateway module. 4 Ports
GFGW-RM02N	Modbus TCP-to-Modbus RTU/ASCII gateway module. 1 Port
Computer	Only needs to support Ethernet RJ45 port connections

II. Module Initial Setting List

	e e				
Product No.	IP address	PORT	Туре	Baud rate	Format
GFGW-RM01N	192.168.1.20	1	Slave	115200	RTU(8,N,1)
		2	Slave	115200	RTU(8,N,1)
		3	Slave	115200	RTU(8,N,1)
		4	Slave	115200	RTU(8,N,1)
GFGW-RM02N	192.168.1.20	1	Slave	115200	RTU(8,N,1)

III. Software Functions Details

The setup software contains the following parameters:

(1) IP address, subnet mask, default gateway

(2) Communication parameters of each serial port's RS485 (including baud rate,

Modbus communication format and parity checking and stop bit)

(3) Operational parameters of each serial port's RS485 (including serial port's

master/slave module and communication timeout parameters)

(4) Each serial port's RS485 mapping parameters (including mapping ID range and

mapping IP)



IV. Gateway Module Connection Setup

Connect your <u>gateway module</u> to your computer via the Internet port and then open i-Designer the <u>i-Designer</u> program to set up <u>gateway</u>

Gateway module connection illustration:



Gateway Module



Gateway module connection image:



6.2 <u>i-Designer Gateway Module</u> Setup Process

I. Preliminary operation

1 After connecting the <u>gateway module</u> to your computer, open "Control Panel" -> "All Control Panel Items" -> "Network and Sharing Center" and then click on "Change adapter settings"

💐 網路和共用中心				-	×
← → ∽ ↑ 💐 > 控制台 > 所3	有控制台項目 > 網路和共用中心		~ Ü	搜尋控制台	٩,
控制台首頁	檢視您基本的網路資訊並設定連線				
變更介面卡設定	做倪作用中的網路				
變更進階共用設定	tw.dinkle.com.tw 2 (未經授權的)	存取類型: 網際網路			
媒體串流選項	公用網路	建線: 🔐 Wi-Fi (Dinkle-Wifi)			
	無法辨識的網路	存取類型: 無網路存取			
	變更網路設定				
	🍓 設定新的連線或網路				
	🔫 設定寬頻、撥號或 VPN 連線,或設定路由器或	存取點。			
	疑難排解問題				
	診斷與修復網路問題,或取得疑難排解資訊。				
請参閱					
Windows Defender 防火牆					
紅外線					
網際網路選項					

2 Click on the Ethernet icon -> "Properties" and then click on "TCP/IPv4)

were and the second	×	乙太網路內容	
般		網路功能 驗證 共用	
王 综		連線方式:	
IPv4 連線能力:	無網路存取	🛃 Realtek PCIe GbE Family Controller	
IPv6 連線能力:	無網路存取	验证()	2
媒體狀態: 連續時期-	已敏用	這個連線使用下列項目(O):	
建成100ml 速度:	100.0 Mbps	Client for Microsoft Networks	^
鮮細資料(E)		The and Printer Sharing for Microsoft Networks Process Packet Driver (NPF)	
		☑ 望 Npcap Packet Driver (NPCAP) ☑ □ OoS 計算算器	
5 % h		🗹 👱 網際網路通訊協定第4版 (TCP/IPv4)	
己德祥 】		□ Microsoft Network Adapter 多工器通訊協定	×
044	10 A.M.	安裝(N) 解除安装(U) 內容(R	υ
	2,199,464	描述	2
位元組: 18,429,482	1	C PRI Audi	
位元組: 18,429,482		"一個」 傳輸控制通訊協定/網際網路通訊協定(TCP/IP),這是預設的 總路通知初史,提供了常確路力開始通訊協力。	唐城
位元組: 18,429,482	診斷(G)	,一~ 傳輸控制通訊協定/網際網路通訊協定 (TCP/IP),這是預設的 網路通訊協定,擔供不同網路之間的通訊能力。	臺城
位元組: 18,429,482	診斷(G)	,一~~ 傳輸控制通訊協定/規解網路通訊協定 (TCP/IP)。這是預設的 網路通訊協定,提供不同網路之間的通訊能力。	賣城
位元組: 18,429,482	診斷(G) 關閉(C)	, 而之 傳輸控制通訊協定/網際網路通訊協定 (TCP/IP),這是預設的 網路通訊協定,提供不同網路之間的通訊能力。	要域

3 Confirm that the network setting is the same as the gateway module setting



of "192.168.1.XXX"

網際網路通訊協定第 4 版 (TCP/IPv4) - 內容	×
一般	
如果您的網路支援這項功能,您可以取得 詢問網路系統管理員正確的 IP 設定。	自動指派的 IP 設定。否則,您必須
○ 自動取得 IP 位址(O)	
● 使用下列的 IP 位址(S):	
IP 位址(I):	192.168.1.70
子網路遮罩(U):	255 . 255 . 255 . 0
預設閘道(D):	
○ 自動取得 DNS 伺服器位址(B)	
● 使用下列的 DNS 伺服器位址(E):	
慣用 DNS 伺服器(P):	
其他 DNS 伺服器(A):	· · ·
□ 結束時確認設定(L)	進階(V)
	確定 取消



V. Make sure that the module is powered and connected to the gateway module using an Ethernet cable



VI. Click to launch the software





VII. Select "M Series Module Configuration"

🚠 i-Designer v1.0.30.b				-	۵×
C Series Module Configuratior	M Series Module Configuration				
1					
Setting Module					
Config					

VIII. Click on the "Setting Module" icon

	🔁 i-Designer v1.0.30.b				×
	C Series Module Configuration	M Series Module Configuration			
	Setting Module				
1					



		Set	ting Module				
Module List	ModeType	Gateway Mode			IP Address	192.168.1.20	
Module	Module Op	otion					
	System Log	J					
		DateTime	Description				
				Connect			

IX. Enter the "Setting Module" page for M-series

X. Select the mode type based on the connected module

	Setting N	Module	×
Module List	ModeType Gateway Mode +		IP Address 192.168.1.20
Module ID	Module Option		
	System Log		
	DateTime	Description	
		Stam Ston Connect Disconnect	



XI. Click on "Connect"

🚠 i				Setting N	Module		1947		×	×
С	Module List		Setting Module			IP Address	192.168.1.20			
	Module		Module Option							
Se M Cc										
			System Log							
			DataTin	20	Description					
			Daterii		Description					
					ystem Stop	Connect	Disco			

XII. Gateway Module IP Settings

Setting Module ×											
Module List						IP /	Address	192.168.1.20			
Module		Module Option									
→ GFGW-RM01N		Internet Setting	Operating Setting	s Port Settings	ID Mapping	Module Information					
		IP Address	192.168.1.20								
		Netmask	255.255.255.0								
		Default Gateway	192.168.1.1								
		System Log									
		Date	ime	Description							
		→ ⊘ 2022	09-14 16:28:06	Read Gateway Mo	odule Successfull	y!					
						Disconnect	c	ave Setting			
						Disconnect	5	ave setting			

Network setting parameters include: IP address, subnet mask, default gateway and

MAC address (non-changeable)

- 1) Set up the IP address.
- 2) Set up the subnet mask.
- 3) Set up the default gateway.
- 4) Click on "Setup" to complete the parameter setup process when you are done.



Setting Module ×											×
Module List								IP A	ddress 19	2.168.1.2	b
Module		Module O	ption								
→ GFGW-RM01N		Internet S	ettings Ope	erating Settings	Port Settings	ID Mapping	Module Inform	ation			
		Channel 1	Baud Rate	115200	+ Parity Bit	None -	Character Length		- Stop Bit		
		Channel 2	Baud Rate	115200	 Parity Bit 	None 🚽	Character Length		- Stop Bit		
		Channel 3	Baud Rate	115200	 Parity Bit 	None 👻	Character Length		 Stop Bit 		
		Channel 4	Baud Rate	115200	🝷 Parity Bit	None -	Character Length		- Stop Bit		
		System Lo	g								
			DateTime	C	escription						
		→ ⊘	2022-09-14	16:28:06 R	ead Gateway M	lodule Successfu	lly!				
							Disconnect		Save	eSetting	

XIII. Communication formats of the 4 RS485 on the gateway module

Serial port parameters of each serial port's RS485 (including baud rate, Modbus communication format and parity checking and stop bit.

- 1) Set up the baud rate transmission speed at each serial port
- 2) Set up the Modbus communication format (RTU/ASCII) at each serial port.
- 3) Set up the parity check (None/Even/Odd).
- 4) Set up the stop bit (0/1/2).
- 5) Click on "Setup" to complete the parameter setup process when you are done.



Setting Module										×
Module List	ModeType Gateway Mode - IP Addr							192.168.1.20		
Module		Module Option								
→ GFGW-RM01N		Internet Se	ettings	Operating Sett	ings Port Sett	tings ID Mapping	g Module Information			
		Channel 1	Mode	Slave	- Timeo	out 25 🗘	ms			
		Channel 2	Mode	Slave	- Timeo	out 25 🗘	ms			
		Channel 3	Mode	Slave	- Timeo	out 25 🗘	ms			
		Channel 4	Mode	Slave	- Timeo	out 25 💲	ms			
		System Log								
		DateTin	ne	Description						
	→ ⊘	2022-0	9-14 16:28:06	Read Gatewa	ay Module Successf	ully!				
							Disconnect		Save Setting	

XIV. Gateway Module Operational Modes

The operating mode parameters include: Choosing the master/slave modules for the each RS485 serial port and slave modules' communication timeout settings.

1) Choose each serial port's master and slave. Choose "master" for the serial ports connecting the controller and "slave" for the other serial ports (Simply put, when TCP>RTU, choose slave; when RTU>TCP, choose master)

2) For serial ports connected to "slave", module communication timeout parameters must be set up

3) Click on" Setup" to complete the parameter setup process when you are done



XV. Gateway Module ID mapping



ID mapping parameters include: mapping IP of the master module in the operation mode and the mapping ID range for the slave module.

1) In the "master" module's operation mode, set up the corresponding master's IP address.

2) In the "slave" module's operation mode, set up the corresponding slave's ID range (decimal system)

3) Click on "Setup" to complete the parameter setup process when you are done.



6.3 GFGW-RM01N Button Reset

I. Reset button location



II. Reset button function

Press and hold for 1 to 3 seconds	Reset IP address
Press and hold for more than 3 seconds	Reset IP address and module settings

III. Press and hold for 1 to 3 seconds to reset the IP address

If the IP address is forgotten, press the reset button to reset the module's IP address to default setting

(Gateway module's default IP address is 192.168.1.20)



IV. Press and hold for more than 3 seconds to reset operating mode, network settings, serial port setting and ID mapping.

The image below is the module default settings

FGW-RM01N Utility			- 0	× 🖬 GF	GW-RM01N	Utility				-	
IP位址: 192 . 1	68 . 1 . 2	0		1	192 192	. 168 .	1 . 20				
	t	Set							Set		
操作模式 網路設定	串列設定 ID映射				操作模式網路	合設定 串列設加	E ID映射				
0 1	aa	a	21		本機網路設定	Ĕ					
Groupi	Group2	Groups	Group4		IP位址:	192 . 168	. 1 . 2	0			
Master	Master	Master	Master Slave		網驗液實:	255 . 255	. 255 . 0				
O Slave	 Slave 	 Slave 	C) Slave		1990	192 168					
Inneout 25	Inneout	Timeout	25		附短:				-		
(x10ms)	(x10ms)	(x10ms)	(x10ms)		MAC :	Oc _ 73	. eb . 7	0 - 0	- 4f		
/				Read	y						
FGW-RM01N Utility IP位址: 192 . 1	68 . 1 . 2	10	- 0	×	GFGW-RM011 IP位址: ¹⁹	N Utility	. 1 . 20			-	
	t	Set							Set		
操作棋式 網路設定	串列設定 ID映射				操作模式 靜	開路設定 串列語	党定 ID映射				
Port1	Port2	Port3	Port4		Group	Tume	IP	Port	MinIDPance	MayIDPan	-
傳輸速度	傳輸速度	傳輸速度	傳輸速度		1	Master	192.168.1.30	502	1	20	60 I
115200 ~	115200 ~	115200 ~	115200 ~		2	Slave	192.168.1.20	502	21	40	
資料長度	資料長度	資料長度	資料長度		3	Slave	192.168.1.20	502	41	60	
KIU V	RTU ~	RTU ~	KIU V		4	Master	192.168.1.30	502	61	127	
同位元檢查	同位元檢查	同位元檢查	同位元檢查 Name								
None ~	None 🗸	None ~	None V								
停止位元	停止位元	停止位元	停止位元								
1 ~	1 ~	1 ~	1 ~								
				.: Rea	idy						