1. Package Contents

Thank you for purchasing PLANET MG-120 RS232/422/485 Modbus Gateways. **"Modbus Gateway"** is used as an alternative name in this Quick Installation Guide.

Open the box of the Modbus Gateway and carefully unpack it. The box should contain the following items:



If any item is found missing or damaged, please contact your local reseller for replacement.

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3. Hardware Introduction

3.1 Front Panel



3.2 Serial Port PIN Assignment

Male DB9	Pin	RS232	RS422 RS485-4W	RS485-2W
	1	DCD	TxD+	
	2	RxD	TxD-	
1 5	3	TxD	RxD-	Data-
	4	DTR	RxD+	Data+
0 \	5	GND	GND	GND
	6	DSR		
6 9	7	RTS		
	8	CTS		
	9			

3.3 Rear Panel



Figure 3-1: Rear Panel of MG-120.

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2. Requirements

The Modbus Gateway provides remote login interface for management purposes. The following equipment is necessary for further management:

- Workstations running Windows XP/2003/Vista/7/8/2008/10, MAC OS X or later, Linux, UNIX, or other platforms are compatible with TCP/IP Protocols.
- Ethernet Port Connection
- > Workstations are installed with Ethernet NIC (Network Interface Card)
- > Network cables: Use standard network (UTP) cables with RJ45 connectors.
- > The above PC is installed with Web browser



Note

It is recommended to use Internet Explorer 8.0 or above to access the Modbus Gateway.

If the Web interface of the Modbus Gateway is not accessible, please turn off the anti-virus software or firewall and then try it again.

4. Web Login

4.1 Starting Web Management

The following shows how to start up the **Web Management** of the Modbus Gateway. Note the Modbus Gateway is configured through an Ethernet connection. Please make sure the manager PC must be set to the same **IP subnet address**.

For example, the default IP address of the Modbus Gateway is **192.168.0.100**, then the manager PC should be set to **192.168.0.x** (where x is a number between 1 and 254, except 100), and the default subnet mask is 255.255.255.0.

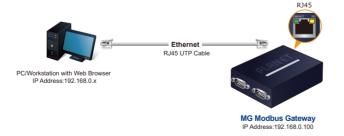


Figure 4-1: IP Management Diagram

4.2 Logging in to the Modbus Gateway

- 1. Use Internet Explorer 8.0 or above for Web browser and enter IP address <u>http://192.168.0.100</u> (the factory -default IP address) to access the Web interface.
- 2. When the following dialog box appears, please enter the default user name "admin" and password "admin" (or the password you have changed before) as shown in Figure 4-2.

Default IP Address: **192.168.0.100** Default Account: **admin** Default Password: **admin**

PLANET	X
User Name Pasword	
	Login

Figure 4-2: Login Screen

3. After entering the password, the main screen appears as shown in Figure 4-3.

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PLANET	MG-110	P1 🐨	
Basic Accessiabl	le IP Network Modbus Ga	teway SNMP Maintenance	Save and Restart C 🗗
System St			
Device Information			
Model:	MG-120	Firmware Version:	v1.1910b200220
Server name:	Server		
Current Time:	2000-01-01 00:00	System Up Time:	0 days 0h:0m:20s
IPv4 Configuration			
	Static		
IP Configuration:	Static 192.168.0.100	Subnet Mask:	255.255.255.0
IP Configuration: IP Address:		Subnet Mask: Primary DNS:	255.255.255.0
IPv4 Configuration IP Configuration: IP Address: Gateway: Second DNS:	192.168.0.100		255.255.255.0 A8:F7:E0:05:A2:36
IP Configuration: IP Address: Gateway:	192.168.0.100	Primary DNS:	
IP Configuration: IP Address: Gateway:	192.168.0.100	Primary DNS:	
IP Configuration: IP Address: Gateway:	192.168.0.100	Primary DNS:	

Figure 4-3: Web Main Screen of Modbus Gateway

4. The Menu in the middle of the Web page lets you access all the functions and statuses the Modbus Gateway provide.

Basic Accessiable IP Network Modbus Gateway SNMP Maintenance Save and Restart C 🖡

Now, you can use the Web management interface to continue the Serial Server management. Please refer to the user manual for more.



- 1. For security reason, please change and memorize the new password after this first setup.
- 2. Only accept command in lowercase letter under web interface.

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5. Remote Telnet Login

5.1 Logging in to the Remote Command Line Interface

The Modbus Gateway also supports Telnet for remote management. You can use Telnet to open a terminal session over one of the Ethernet ports. The Modbus Gateway asks for user name and password for remote login when using Telnet; please use the following default IP address, username and password for the first-time login.

Default IP Address: **192.168.0.100** Default Username: **admin** Default Password: **admin** You will be presented with a text menu displaying the Modbus Gateway's general settings, which you will be able to view and modify. Please refer to User Manual for a description of the available settings.



6.1 Installation of MB VCOM Utility

The MG-120 MB VCOM Utility can be downloaded from PLANET Web site. Please locate and run the setup program "**mbgsetup.exe**" and follow the on-screen instructions.



Download link:

https://www.planet.com.tw/en/support/downloads?&method=ke yword&keyword=MG&view=6#list

After installing, rebooting your workstation/PC is required.



If you have difficulty in downloading or executing MB VCOM Utility, turn off the firewall and antivirus software first. Networking & Communication



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FLANLI	recimo	IUG Y V	Julp.

 10F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan
 2010-A10090-000

 Warning: This device is complant with Class A of CISPR 32. In a residential environment this devices are adio interference.
 CCCCS

 Energy Saving Note of the Device
 Energy Saving Note of the Device

This power required device does not support Standby mode operation. For energy savings, please remove the DC plug or slide the hardware-based Power Switch to the OFP position to disconnect the device from the power circuit. Without removing the DC plug from or switching of the device, the device will still consum power from the power source. In view of Saving the Energy and reducing the unnecessary power consumption, R is strongly suggested to power off or to remov the DC plug from the device if this device is not intended to be active.

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6. Getting Started with MB VCOM Utility

With MB VCOM Utility, you can easily search one or multiple MG-120 Modbus Gateway(s) over the network from a remote location.



6.2 Searching Modbus Gateway

First click **"Add Device"** and then click **"Search"** if Modbus Gateway has access to network, as shown below.

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<u>R</u> emote D	evice Managem	ent <u>C</u> OM Mapping	<u>A</u> bout <u>E</u> xit		
Add Dev	ice Search	IP Remove Device	Open in Browser		
# ^	Туре	MAC	IP	Device Description	

7. Recovering Back to Default Configuration

IP Address has been changed or admin password has been forgotten -

To reset the IP address to the default IP address **"192.168.0.100"** or reset the login username and password to default value, press the hardware-based reset button on the bottom panel for about 5 seconds. After the device is rebooted, you can log in the management Web interface within the same subnet of 192.168.0.xx and default password. Be noted that all the previous setups will be disappeared after the factory default reset is made.

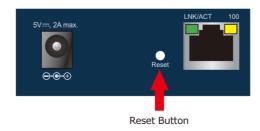


Figure 7-1: MG-120 Hardware-based Reset Button



Quick Installation Guide

2-Port RS232/RS422/RS485 Modbus Gateway

▶ MG-120

8. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs: http://www.planet.com.tw/en/support/faq

Support team mail address: support@planet.com.tw



MG-120 User's Manual: https://www.planet.com.tw/en/support/download s?&method=keyword&keyword=MG&view=3#list

(Please select your Modbus Gateway model from the Product Model drop-down menu)



MB VCOM Utility: https://www.planet.com.tw/en/support/download s?&method=keyword&keyword=MG&view=6#list

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