NOVAKON Protocol Conversion Gateway **GW-01 Setup Manual**





Power Connection

The device requires a power voltage of DC 24V (+/-20%). For a power consumption of 6W on the device, a power supply of 8W or above is recommended.

Importance Notice

It is recommended that the power plug must be connected to the device power terminal prior to connecting to the power source.

Power-connecting steps

- 1. Remove the power plug from the power terminal of the device.
- 2. Loosen the three screws on the power plug.
- 3. Strip the cable to expose the copper wire to about 7-8mm.
- 4. Insert the exposed copper wire into the three openings on the power plug.
- 5. Retighten the three screws on the power plug.
- 6. Plug the power plug back into the power terminal of the device. Note

The power plug is included and already plugged into the power terminal of the device.

	Power Line Type	Power Line (AWG)	Strip Length	Torque
<u>alala</u>	Solid	28-12	About 7-8 mm	About 4.5lb-in
	Stranded	30-12	About 7-8 mm	About 4.5lb-in
DC FG +24 0V €	* with copper cop	duction wire only		

* with copper conduction wire only.

Grounding

In order to maintain the operational condition and functioning of the hardware

components, please ensure proper power grounding. Please ensure that the cable connecting the FG power terminal to the ground has a cable

resistance lower than 100.

Warning

Please read this manual before continuing with installation or operation of the device.

General Guide

• Installation and operation of the device must be done by professionally trained staff. • Installation of the device must follow the instructions as printed in this manual.

 Installation of the device must be kept away from the risk of any liquid or metal particles getting into the device. Foreign particles may cause internal components to short circuit

and thus damage the device or even catch fire. • Installation of the device must be kept away from the risk of corrosion, explosion, or heavy

electronic and magnetic elds. It must also be kept away from high humidity and extreme shifts in temperature.

Power Supply

• The device is designed with an input power of DC 24V. If the supply voltage is outside of the DC 24V +/- 20% range, it may result in damage or malfunction to the device. Therefore, please confirm that the voltage is correct before powering the device on. Please also ensure that the supplied power is stable during device operation.

Installation:

· Please avoid placing communication lines in the same conduit as the power lines and high voltage lines. Isolated lines are suggested to reduce surrounding noise interference.

Service and Maintenance

• Please do not allow any non-trained staff members to perform the maintenance servicing. Please do not use batteries with poor guality.

Waste and Recycling

 Please adhere to local regulations when recycling device. · The lithium battery, and capacitors contain hazardous material to individual health and

local environment, and must be disposed responsibly.



COM Port

The assignment of each pin and COM port varies from that of a standard PC. Please refer to the abo nent





Preparation

Setup Requirement 1. GW-01 x1 2. Computer with ethernet port x1

3. DC24V power supply x1



Installation Procedure

Step 1: Fasten the DIN rail clip to the Gateway with two screws

Step 2: Clip the device onto the DIN rail





Accessing Your GW-01

First time accessing the GW-01, connect your computer to the default ethernet port [LAN1] of GW-01 with the default IP address http://192.168.0.80.

Change your computer's IP setting to be in the same network with GW-01, e.g., the default IP address of GW-01 is 192.168.0.80; computer IP address set as 192.168.0.xxx. If not necessary, do not change the default IP address of LAN1.

etworking Sharing Connect using:	
Connect using:	
Realtek PCIe GBE Family Controller	
Configure	
This connection uses the following items:	_
Client for Microsoft Networks	^
File and Printer Sharing for Microsoft Networks	
QoS Packet Scheduler	
Internet Protocol Version 4 (TCP/IPv4)	
Microsoft Network Adapter Multiplexor Protocol	- 1
Microsoft LLDP Protocol Driver	
Internet Protocol Version 6 (TCP/IPv6)	~
< >	
	_
Instal Uninstall Properties	
Description	- 1
Transmission Control Protocol/Internet Protocol. The default	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication	

Interenet Protocol Version 4 (IC	P/IPv4) Prope	rties		>
General				
You can get IP settings assigned this capability. Otherwise, you r for the appropriate IP settings.	d automatically need to ask yo	if your n ur netwo	etwork supp rk administra	orts tor
Obtain an IP address auto	matically			
• Use the following IP addre	\$5:			
IP address:	192	168 . (. 158	
Subnet mask:	255	255 . 2	55.0	
Default gateway:				
Obtain DNS server address	s automatically			
Use the following DNS server	ver addresses:			
Preferred DNS server:			•	
Alternate DNS server:			•	
✓ Validate settings upon exi	ē		Advance	d
	I	OK	C	ancel



1. Open a browser and connect to http://192.168.0.80

2. Type the default username and password: Username: admin Password: 1234

3. Click [Sign In] and the configuration page is displayed





ove table for signal connection and pin	assignn
ort Pin Assianment :	Pin
orer my losignment	1
	2
	3
	4
1) 1 5 4 3 2 1 / // 1) 1	

Configuring IP and Network Settings

im-connect	×
() ABOUT	
PLC SETTING	
🚫 TAG SETTING	
DATA LOGGER	
() ALARM	
MACRO EDITOR	
OPC UA CLIENT	
ONLINE MONITOR	
PROJECT SETTING	
SYSTEM SETUP	

Click []] to view the [iM-CONNECT] menu. Click [System Setup]. Click [Network Setup] to configure Gateway's IP Address and Network Settings.

A. Ethernet Configure the IP address, Mask, Gateway, and DNS of [LAN1] and [LAN2] respectively.

B. IP Address Ethernet [Obtain IP address automatically(DHCP)] : System automatically obtains IP addresses. [Use static IP address below] : Manually input the IP Addresses.

After configuration of each LAN, click [Submit] to save the settings to GW-01.



Reset to Default

If you forget the password or default configuration information, you can reset GW-01 to factory defaults. By plugging in the supplied USB recovery drive into the USB port on the GW-01 for a few seconds, it will be restored to factory configuration and reboot.

Note:

After reboot, wait 20 seconds before opening the browser

Additional Information

To download the detailed user guide of GW-01 and understand the supported PLC models, pay a visit to Novakon official website : https://www.novakon.com.tw