

RFID SYSTEM

V640 SERIES

CIDRW SYSTEM

V640 Utility Tool

OPERATION MANUAL

V640-HAM11-ETN-V2

V640-HAM11-L-ETN-V2



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Introduction

Thank you for using CIDRW System V640-series EtherNet Type.

This manual describes how to use the "V640 Utility Tool", a Windows application software equivalent to the WEB browser interface function installed in the V640-series amplifier units.

Please read this manual and make sure you understand the functionality and performance of the V640-series before you attempt to use it in a CIDRW System.

Keep this manual in a safe place where it will be available for reference during operation.

Intended Audience

This manual is intended for the following personnel, who must also have knowledge of electrical systems (an electrical engineer or the equivalent).

- Personnel in charge of introducing CIDRW systems.
- Personnel in charge of designing CIDRW systems.
- Personnel in charge of installing and maintaining CIDRW systems.
- Personnel in charge of managing CIDRW systems and facilities.

Applicable Products

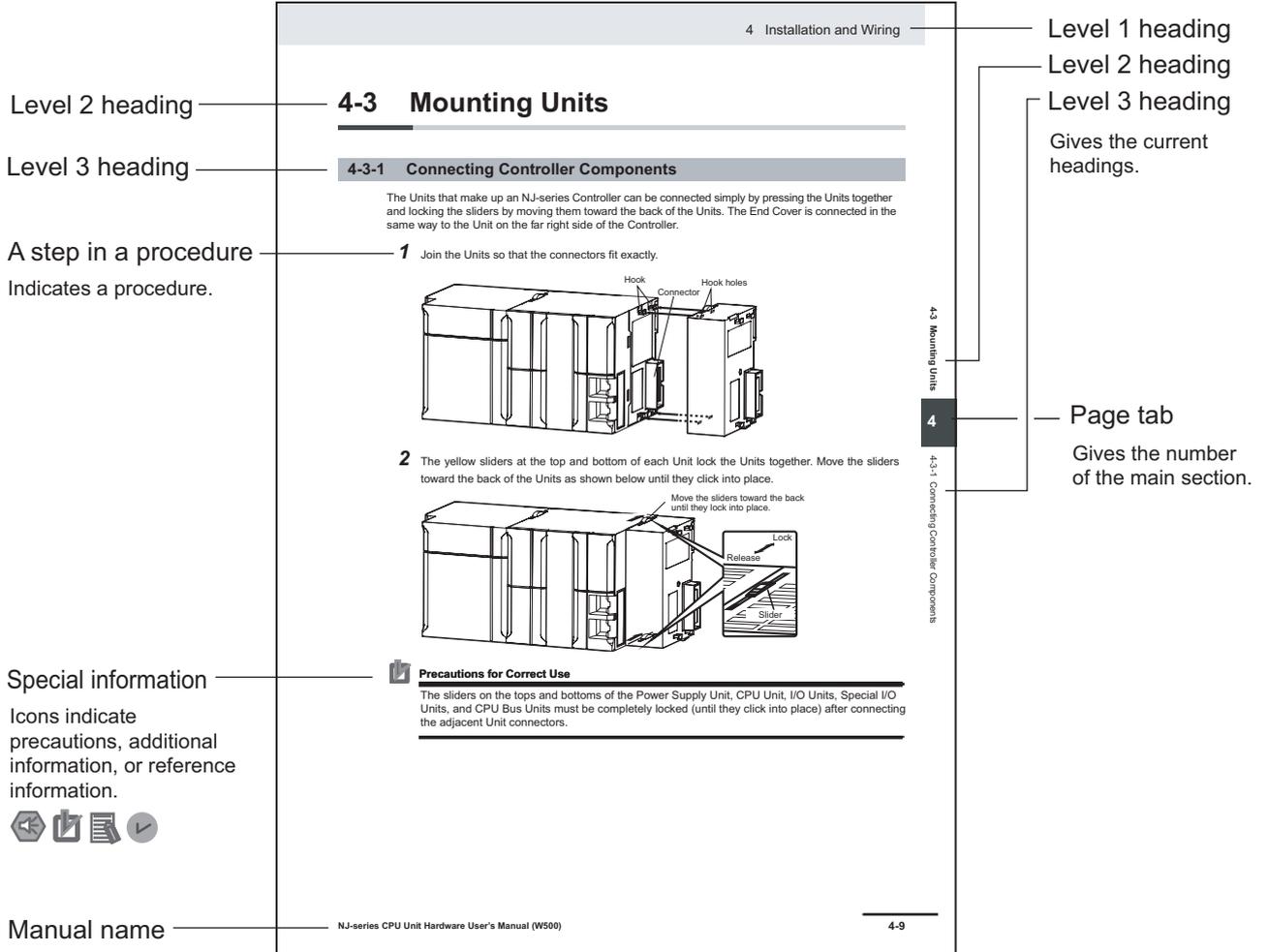
The Windows application software "V640 Utility Tool" described in this manual is intended for the following amplifier units equipped with Ethernet.

- V640-HAM11-ETN-V2
- V640-HAM11-L-ETN-V2

Manual Structure

Page Structure

The following page structure is used in this manual.



Note : This page is a sample for the purpose of describing the page structure. It differs in its actual content.

Icons

The icons used in this manual have the following meanings.



Precautions for Safe Use

Precautions on what to do and what to avoid doing to ensure the safe use of the product.



Precautions for Correct Use

Precautions on what to do and what to avoid doing to ensure proper operation and performance.



Additional Information

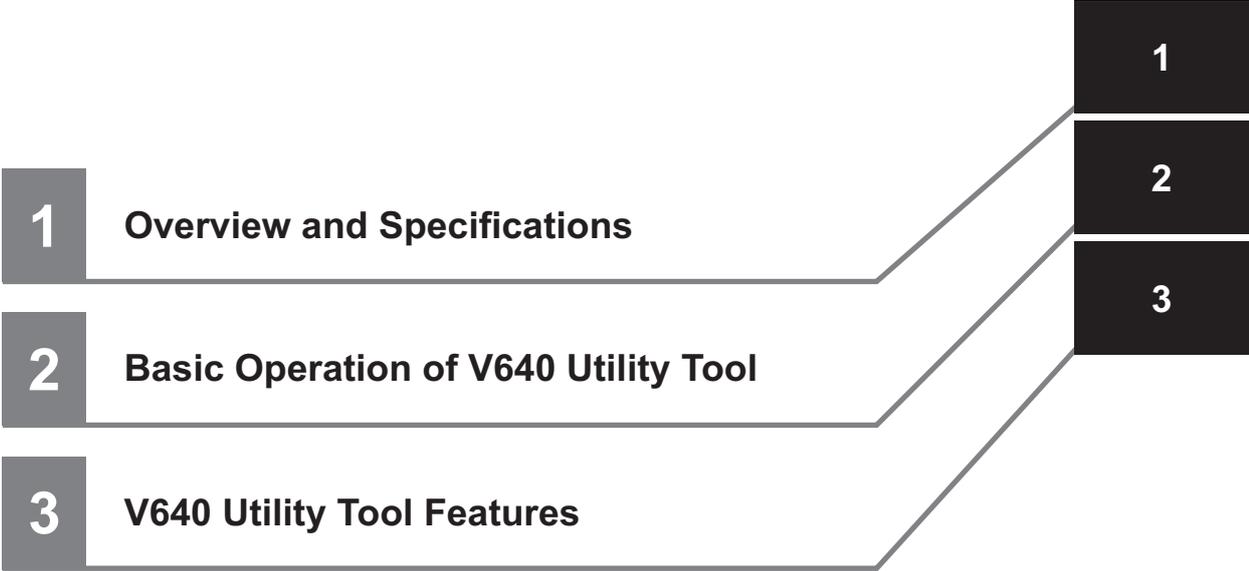
Additional information to read as required.
This information is provided to increase understanding or make operation easier.



Version Information

Information on differences in specifications and functionality between versions is given.

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- 2) consuming them in the course of a process of production or manufacture; or
- 3) repairing or treating in trade other goods or fixtures on land.

Safety Precautions

Definition of Precautionary Information

The following notation is used in this manual to provide precautions required to ensure safe usage of the V640-series CIDRW System.

The safety precautions that are provided are extremely important for safety. Always read and heed the information provided in all safety precautions.

The following notation is used.

 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. Additionally, there may be severe property damage.
 Caution	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.

Symbols

	The circle and slash symbol indicates operations that you must not do. The specific operation is shown in the circle and explained in text. This example indicates prohibiting disassembly.
	The triangle symbol indicates precautions (including warnings). The specific operation is shown in the triangle and explained in text. This example indicates a precaution for electric shock.
	The triangle symbol indicates precautions (including warnings). The specific operation is shown in the triangle and explained in text. This example indicates a general precaution.
	The filled circle symbol indicates operations that you must do. The specific operation is shown in the circle and explained in text. This example shows a general precaution for something that you must do.
	The triangle symbol indicates precautions (including warnings). The specific operation is shown in the triangle and explained in text. This example indicates a precaution for high temperatures.

WARNING



Security Measures

To prevent computer viruses, install antivirus software on a computer where you use this software. Make sure to keep the antivirus software updated.



Keep your computer's OS updated to avoid security risks caused by a vulnerability in the OS.



Always use the highest version of this software to add new features, increase operability, and enhance security.



Manage usernames and passwords for this software carefully to protect them from unauthorized uses.



Set up a firewall (E.g., disabling unused communication ports, limiting communication hosts, etc.) on a network for a control system and devices to separate them from other IT networks. Make sure to connect to the control system inside the firewall.



Use a virtual private network (VPN) for remote access to a control system and devices from this software.



Precautions for Safe Use

For details on Precautions for Safe Use, please refer to *Precautions for Safe Use* in *V640-HAM11(-L)-ETN-V2/HS61/HS62 CIDRW SYSTEM USER'S MANUAL(Z361-E1)*.

Precautions for Correct Use

For detailed precautions on the correct use of the product, please refer to *Precautions for Correct Use* in *V640-HAM11(-L)-ETN-V2/HS61/HS62 CIDRW SYSTEM USER'S MANUAL(Z361-E1)*.

Related Manuals

The followings are the manuals related to this manual. Use these manuals for reference.

Name of Manual	Cat. No.	Model	Usage	Description
V640-series CIDRW System USER'S MANUAL	Z361-E1	V640-series CIDRW System	When you want to know the product specifications and basic settings for using the V640-series CIDRW System	V640-series CIDRW System specifications, installation and connection/wiring, preparation for communication, reading/writing to/from ID tags, and browser interface are described.
V640-series CIDRW System Utility Tool OPERATION MANUAL	Z469-E1		When you want to know how to operate the amplifier unit of the V640-series CIDRW System with the V640 Utility Tool	V640 Utility Tool for operating the amplifier units of the V640 series CIDRW systemsV640-series CIDRW System overview, basic operation, and features are described.

Revision History

A manual revision code appears as a suffix to the catalog number on the front and back covers of the manual.

Cat. No.	Z469-E1-01
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↑ Revision code

Revision code	Date	Revised content
01	October 2022	• First Publication.

1

Overview and Specifications

This section provides an overview of V640 Utility Tool, system environment, and installation / uninstallation.

1-1	Overview of Configuration Tool	1-2
1-2	System Environment	1-3
1-3	Installation and Uninstallation	1-4
1-3-1	Installation	1-4
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1-1 Overview of Configuration Tool

The V640 Utility Tool is a Windows application software equivalent to the WEB browser interface functionality of the V640-series amplifier units.

If your PC environment is Windows 10 or Windows 11, we recommend that you use this tool.

The V640 series amplifier units that can use the V640 Utility Tool are as follows.

Product name	Model	Version
CIDRW Amplifier Unit	V640-HAM11-ETN-V2	Ver1.00 - 1.01
	V640-HAM11-L-ETN-V2	Ver1.00 - 1.01

1-2 System Environment

The following environment is required to use V640 Utility Tool.

Item	Requirement
Operating system (OS)	Windows 10 32-bit or 64-bit edition Windows 11
Operating condition	.NET Framework 4.6 or higher is installed

1-3 Installation and Uninstallation

1-3-1 Installation

No software installation necessary.
Start by double-clicking "V640 Utility Tool.exe".

1-3-2 Uninstallation

No software uninstallation necessary.
Delete "V640 Utility Tool.exe" as appropriate.

2

Basic Operation of V640 Utility Tool

This section describes how to set the IP address of the computer and how to start and shutdown.

2-1	Set the IP address of the computer	2-2
2-1-1	Default IP Address Settings of the Amplifier Unit	2-2
2-1-2	Setting the IP Address of the Computer with Windows 10.....	2-2
2-2	Getting Started	2-3
2-3	Shutting Down	2-5

2-1 Set the IP address of the computer

The default IP addresses of the Amplifier Unit are given in the following table. Use these addresses to set the IP address on the computer.

This example changes the last part of the IP address to a value other than 200 (i.e., to 1 to 199 or 201 to 254).

Values of 0 and 255 cannot be used.

2-1-1 Default IP Address Settings of the Amplifier Unit

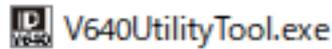
Setting item	Default setting
IP address	192.168.1.200
Subnet mask	255.255.255.0

2-1-2 Setting the IP Address of the Computer with Windows 10

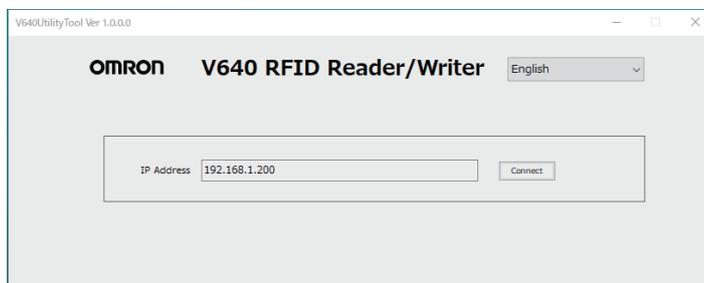
- 1** Open the **Control Panel**, and select **Network and Internet** and then **Network and Sharing Center**.
- 2** Select **Change adapter settings** and then right-click **Local Area Connection**.
- 3** Right-click **Local Area Connection** and select **Properties**.
- 4** Select **Internet Protocol Version 4(TCP/IPv4)** and then click the **Properties** Button.
Change the last part of the IP address to a value other than 200 (i.e., to 1 to 199 or 201 to 254).
Values of 0 and 255 cannot be used.
- 5** Click the **OK** Button to close the **Internet Protocol Version 4(TCP/IPv4) Properties** Dialog Box.

2-2 Getting Started

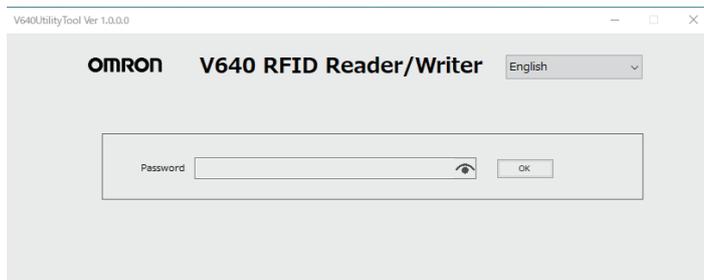
- 1 To start the V640 Utility Tool, double-click "V640 Utility Tool.exe" in any local folder.



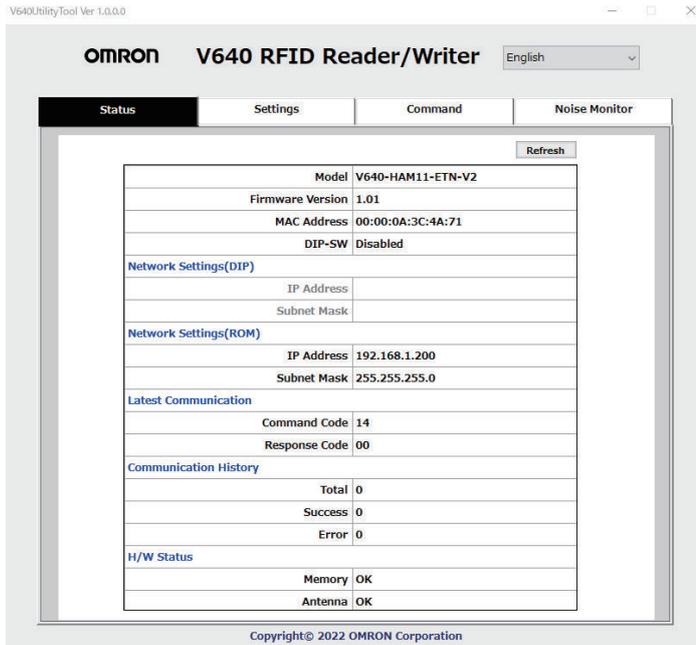
- 2 The connection window will start up. Enter the IP address of the V640 amplifier unit you wish to connect and press the **Connect** button.



- 3 If you have set a password for the V640, the password window will appear after you press the **Connect** button. Enter the correct password and press the **OK** button. The following characters can be used for the password: "0 to 9", "a to z", and "A to Z".

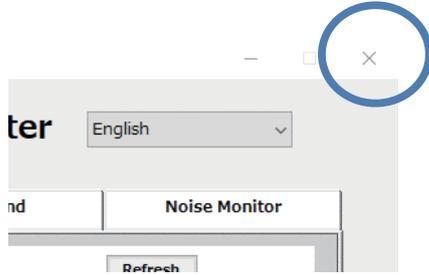


- 4 If the connection is successful, the status window will be displayed.



2-3 Shutting Down

To shut down V640 Utility Tool, click the **X** mark in the top right corner of the Top page.



3

V640 Utility Tool Features

This section describes the V640 Utility Tool screen configuration and each function.

3-1	Window Configuration	3-2
3-2	Status Window	3-3
3-3	Setting Window	3-5
3-4	Command Window	3-6
3-4-1	CID R/W	3-6
3-4-2	V640 Command	3-8
3-5	Noise Measurement Window.....	3-11

3-1 Window Configuration

The window structure of the V640 Utility Tool is shown as follows.

The screenshot displays the V640 Utility Tool interface for the V640 RFID Reader/Writer. The window title is 'V640UtilityTool Ver 1.0.0.0'. The main title is 'V640 RFID Reader/Writer' with a language dropdown set to 'English'. The interface has four menu buttons: 'Status' (highlighted), 'Settings', 'Command', and 'Noise Monitor'. A 'Refresh' button is located in the top right of the main display area.

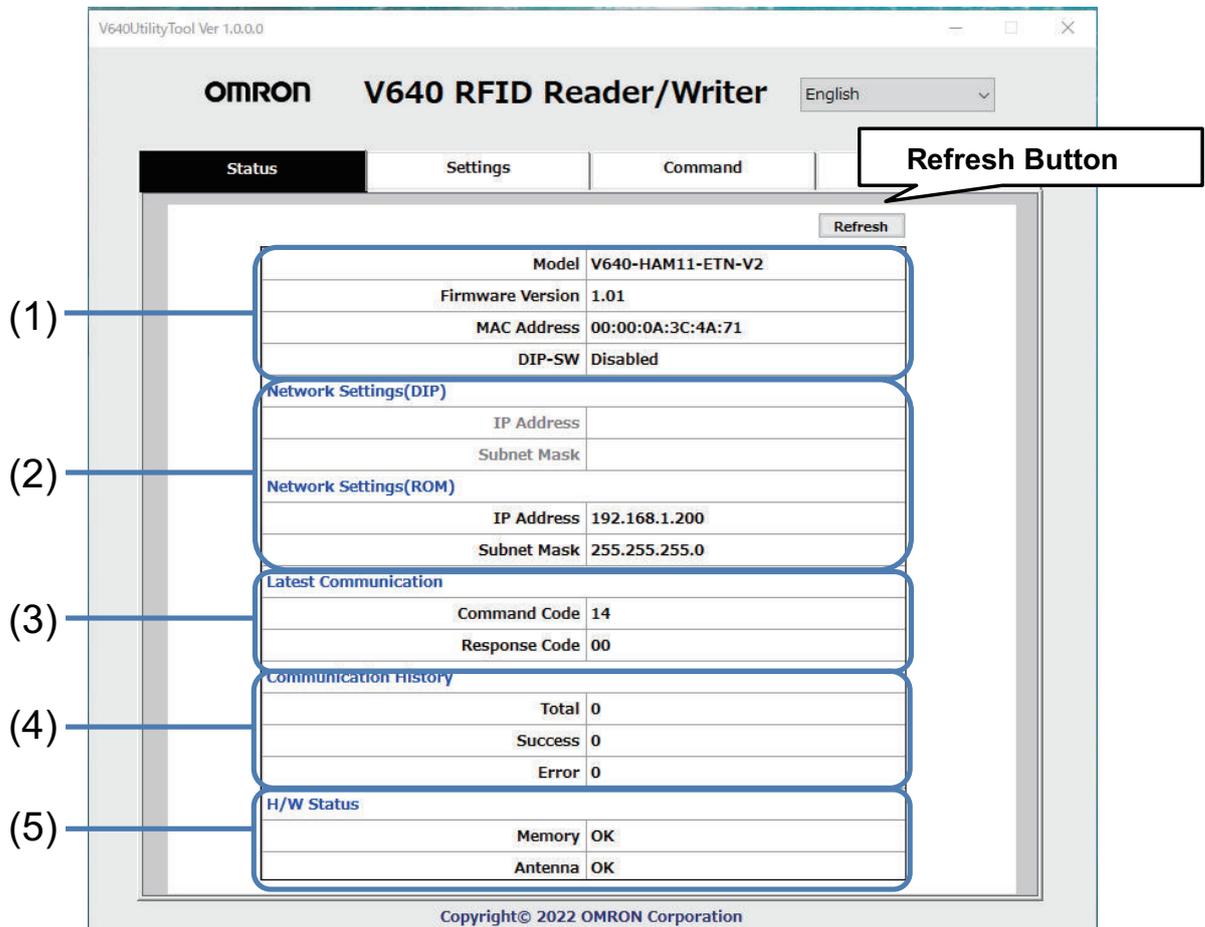
The main display area contains the following data:

Model	V640-HAM11-ETN-V2
Firmware Version	1.01
MAC Address	00:00:0A:3C:4A:71
DIP-SW	Disabled
Network Settings(DIP)	
IP Address	
Subnet Mask	
Network Settings(ROM)	
IP Address	192.168.1.200
Subnet Mask	255.255.255.0
Latest Communication	
Command Code	14
Response Code	00
Communication History	
Total	0
Success	0
Error	0
H/W Status	
Memory	OK
Antenna	OK

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3-2 Status Window

The **Status** Window displays the model number, firmware version, MAC address, and other information on the Amplifier Unit so that you can check it. Click the **Refresh** Button at the top of the window to update the displayed information (latest communication, communication history, and H/W status).



(1) Amplifier Unit Information

Item	Description	Comments
Model	The product model number is displayed.	
Firmware Version	The firmware version is displayed.	
MAC Address	The MAC address is displayed.	
DIP-SW	Enabled is displayed if the Amplifier Unit is set to use the IP address that is <i>set on the DIP switch</i> . Disabled is displayed if the Amplifier Unit is set to use the IP address that is <i>set in ROM</i> .	

(2) Network Setting Information

Item	Description	Comments
Network Settings(DIP)	If the Amplifier Unit is set to use the IP address that is <i>set on the DIP switch</i> , this item is displayed in blue, and the IP address and subnet mask of the Amplifier Unit are displayed.	If the Amplifier Unit is set to use the IP address that is <i>set on the DIP switch</i> , this item is grayed out.
IP Address		
Subnet Mask		

Item	Description	Comments
Network Settings(ROM)	If the Amplifier Unit is set to use the IP address that is set in ROM, this item is displayed in blue, and the IP address and subnet mask of the Amplifier Unit are displayed.	If the Amplifier Unit is set to use the IP address that is <i>set in ROM</i> , this item is grayed out.
IP Address		
Subnet Mask		

(3) Last Command Information

Item	Description	Comments
Latest Communication	The last command code that was executed and the last response code that was returned by the Amplifier Unit are displayed.	Nothing is displayed if a command has not been executed since the Amplifier Unit was started.
Command Code		
Response Code		

(4) Communications History Information

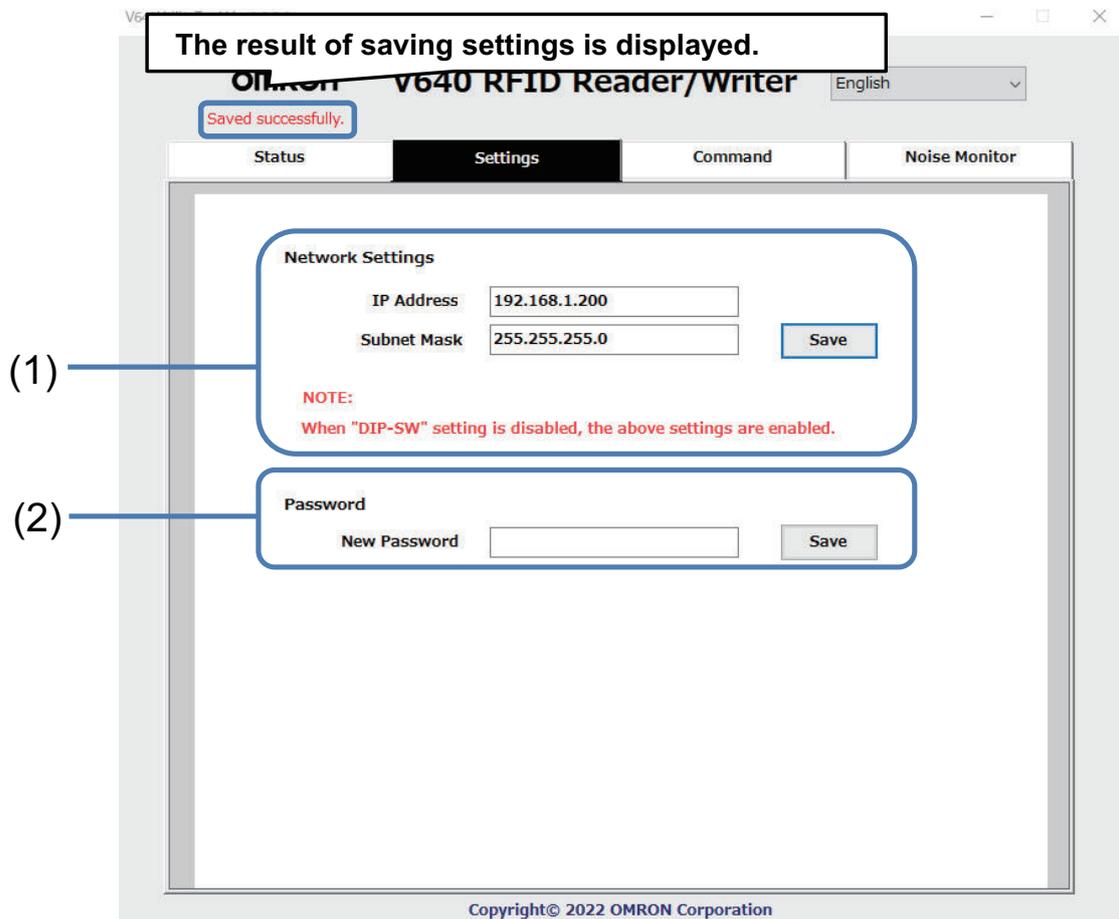
Item	Description	Comments
Communication History	History information on communications with the ID Tags is displayed	
Total	Total number of communications	
Success	Total number of successful communications	
Error	Total number of failed communications	

(5) Hardware Information

Item	Description	Comments
H/W Status	Hardware information is displayed.	OK is displayed for normal status.
Memory	Error is displayed if a memory error was detected during the memory check at startup.	
Antenna	Error is displayed if an error is detected in the CID Head that is connected to the Amplifier Unit (or if a CID Head is not connected).	

3-3 Setting Window

The network settings (IP address and subnet mask) of the Amplifier Unit and the **password** can be set in the **Setting** Window. The values that are set are enabled when the Amplifier Unit is restarted.



(1) Network Settings

Item	Description	Comments
IP Address	The IP address of the amplifier unit can be specified.	
Subnet Mask	The Subnet Mask of the amplifier unit can be specified.	

(2) Password

Item	Description	Comments
New Password	You can set a new password . If the Save Button is clicked when the password box is empty, the password will be cleared. In this state, the V640 Utility Tool V640 Utility Tool and browser interface can be used without entering the password .	The following characters can be used for the password: 0 to 9, a to z, and A to Z.

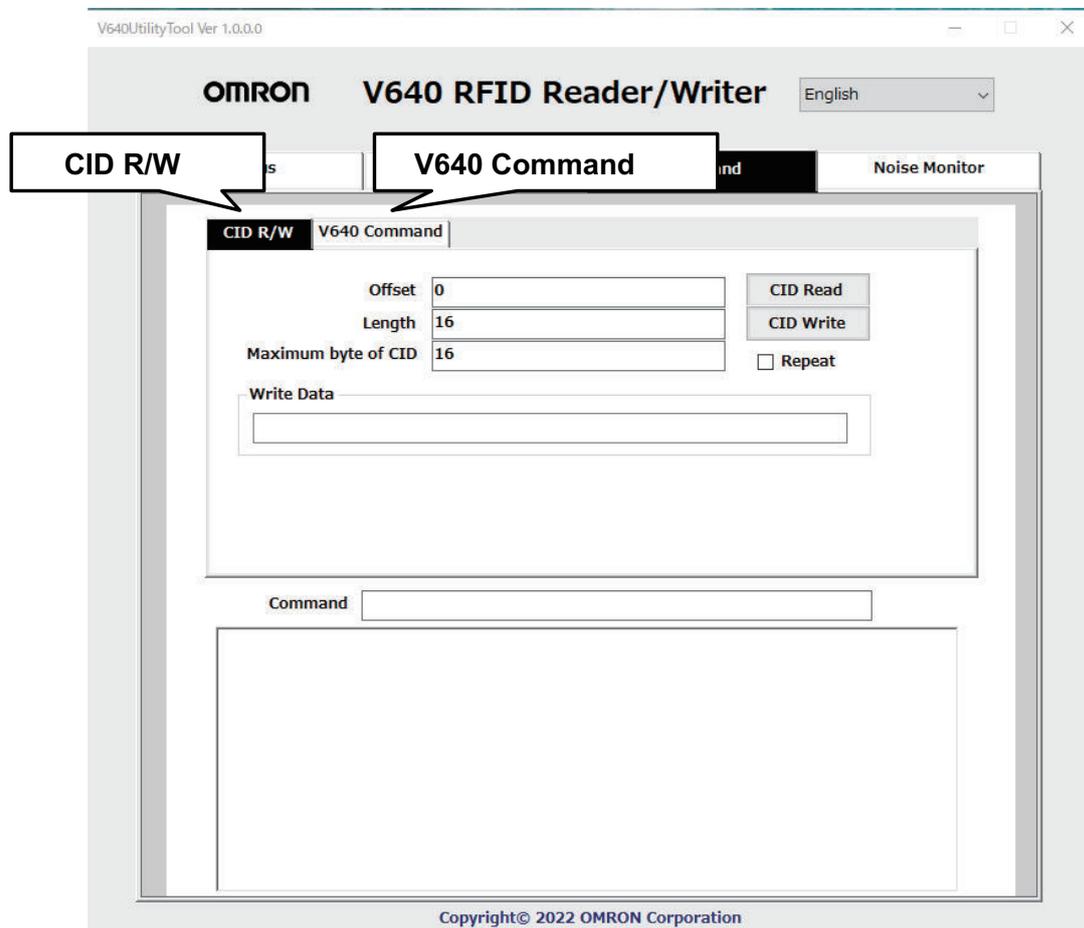


Precautions for Correct Use

Never turn OFF the power supply to the Amplifier Unit before a response is received after clicking the **Save** Button. Doing so may damage the Amplifier Unit.

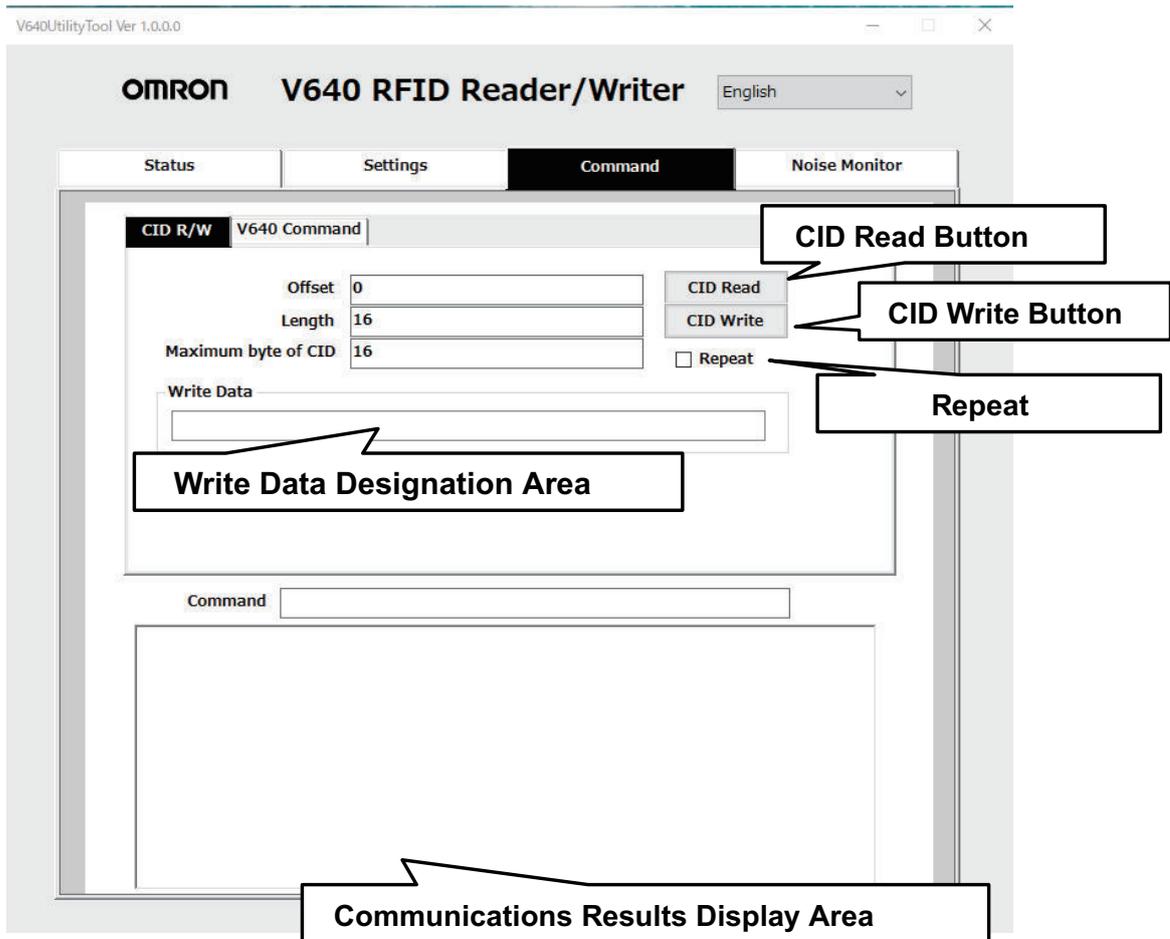
3-4 Command Window

The **Command Window** can be used to communicate with ID Tags. The **Command Window** has two tab pages: **CID R/W** and **V640 Command**.



3-4-1 CID R/W

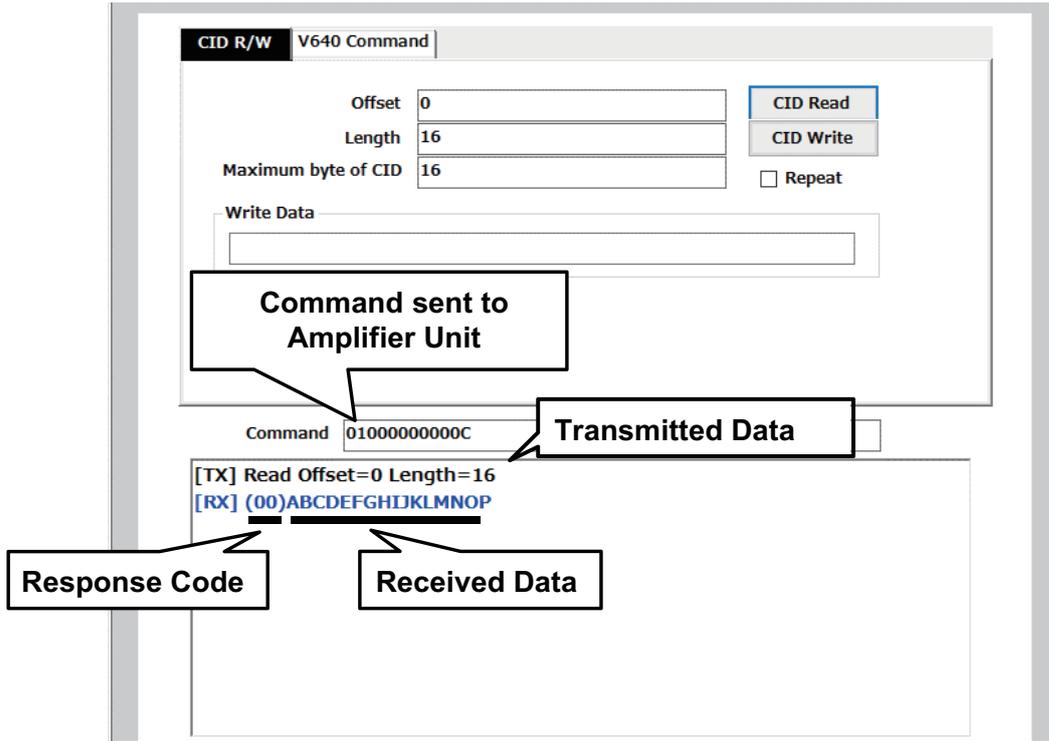
The **CID R/W** Window allows you to read or write ID Tag data by specifying the **offset**, **length**, and **maximum bytes of CID**. If writing is executed, you must also specify the **write data**.



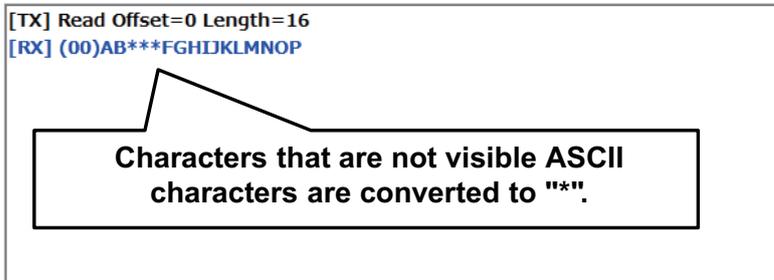
Item	Description	Comments
Offset	Specify the CID offset between 0 and 15 bytes.	
Length	Specify the CID length between 1 and 16 bytes.	
Maximum byte of CID	Specify the maximum CID length between 1 and 16 bytes.	
Write Data Designation Area	For the write data, specify only the number of bytes for the specified Length .	Specify only visible ASCII characters.
Repeat	Check this box if the program is to be run repeatedly.	
Command	Commands actually sent to the amplifier unit are displayed.	
Communications Results Display Area	Transmitted and received data to the amplifier unit are displayed. TX : The data transmitted toward the amplifier unit is displayed. RX : The data received from the amplifier unit is displayed.	

Execution example

For example, the results display would be as shown below if a CID read was executed with "an offset of 0, a length of 16, and a maximum bytes of CID of 16".

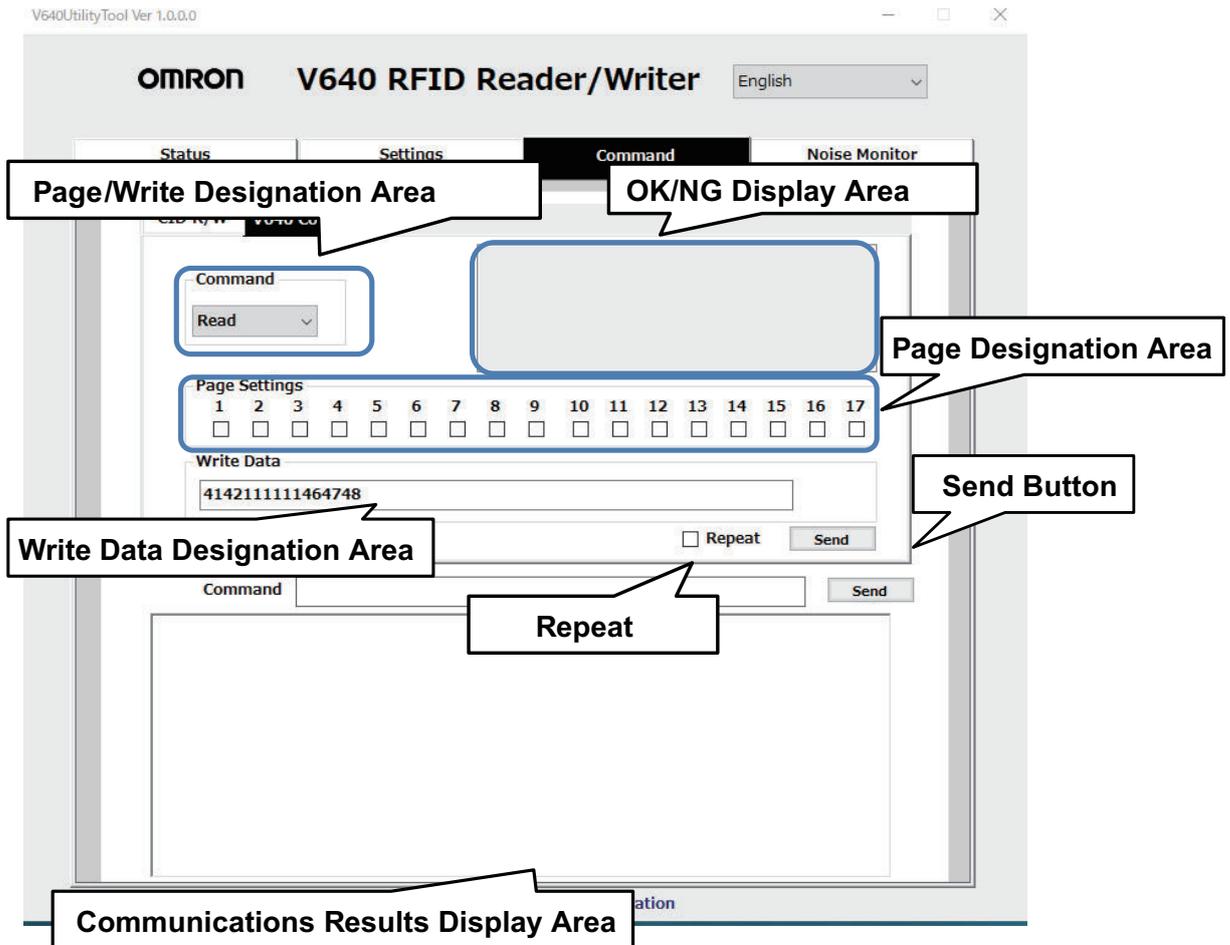


Only "visible ASCII" characters can be used to read and write data on the **CID R/W** Tab Page. If characters that are not "visible ASCII" characters are detected for a "CID read", they will be converted to asterisks "***".



3-4-2 V640 Command

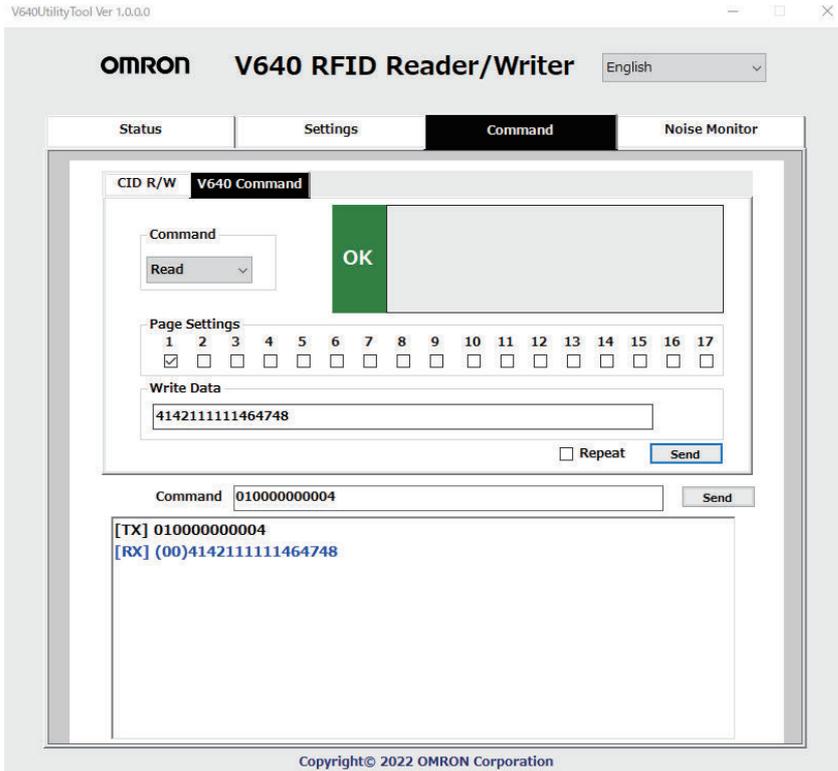
The **V640 Command** Window allows you to read and write data according to the command format of the Amplifier Unit.



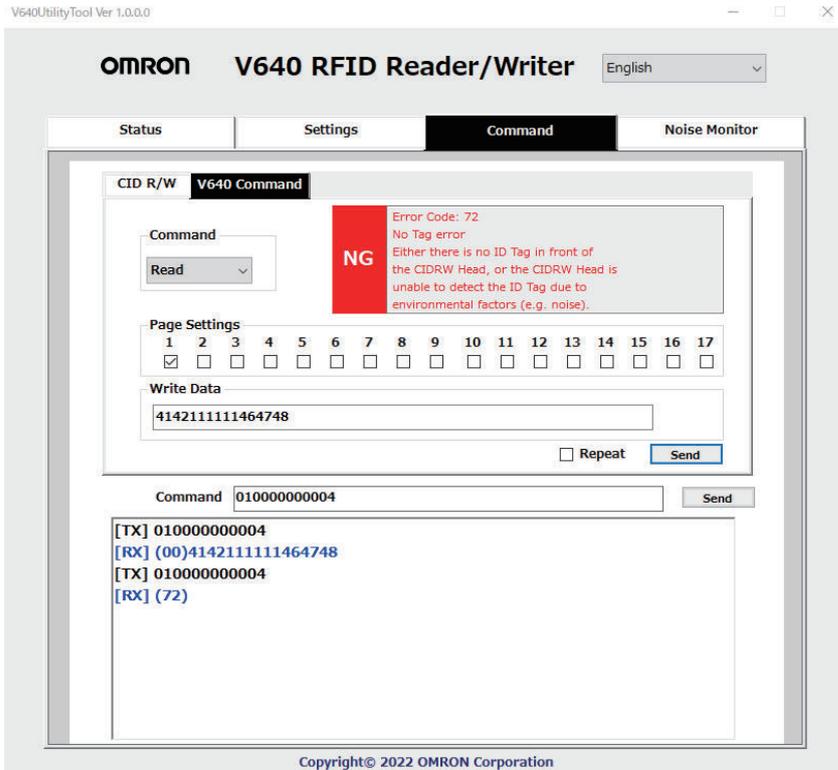
Item	Description	Comments
Read/Write Designation Area	Select Read or Write in the Read/Write Designation Area.	
OK/NG Display Area	The Read/Write command execution results will be displayed as OK or NG in the OK/NG Display Area. If NG is displayed, information on the error will be displayed.	
Page Designation Area	Select the check boxes to specify the pages to be read or written .	
Write Data Designation Area	When writing data, specify the data to write to the ID Tag as a hexadecimal string. Specify 16 characters for each page that you specify in the Page Designation Area .	
Repeat	Check this box if the program is to be run repeatedly.	
Send Button	Press the Send button to send the command. When you press the Send button on the right side of the Command , the content displayed in the Command is sent.	
Command	Commands actually sent to the amplifier unit are displayed.	
Communications Results Display Area	Transmitted and received data to the amplifier unit are displayed. TX : The data transmitted toward the amplifier unit is displayed. RX : The data received from the amplifier unit is displayed.	

Execution example

Successful Communications



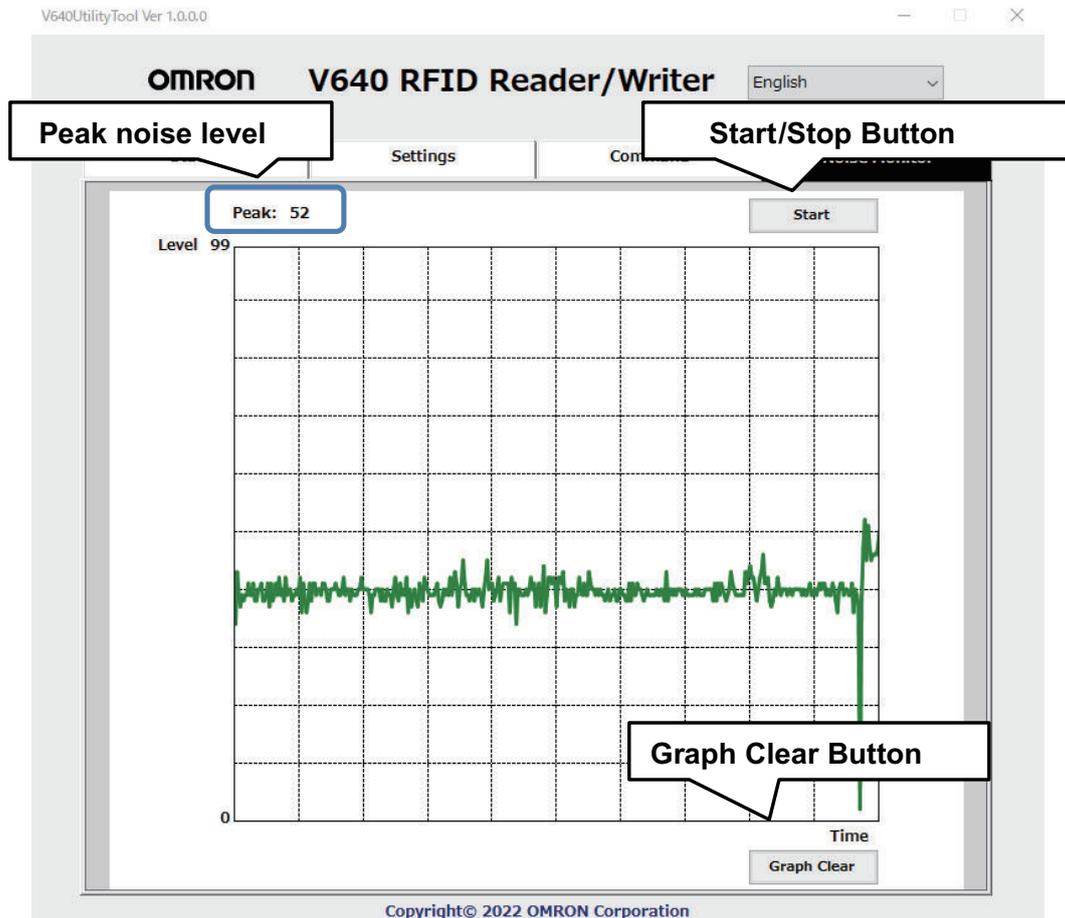
Failed Communications



3-5 Noise Measurement Window

The **Noise Measurement** Window allows you to continuously send the "NOISE MEASUREMENT command" to the Amplifier Unit and display the results in real time.

The horizontal axis gives the time and the vertical axis gives the noise level (0 to 99).



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