

**SMARTDAC+ STANDARD
IP Address Configurator
User's Manual**

Introduction

This manual explains how to use SMARTDAC+ STANDARD IP Address Configurator. To ensure correct use, please read this manual thoroughly before beginning operation.

Notes

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Revisions

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December, 2015	3rd Edition
May, 2017	4th Edition
June, 2018	5th Edition
March, 2019	6th Edition
May, 2022	7th Edition

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Software product: SMARTDAC+ STANDARD IP Address Configurator

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End of document

How to Use This Manual

Structure of the Manual


This manual contains the following four chapters.

Chapter	Title and Description
1	Before Using the Product Provides an overview of the IP Address Configurator and the PC system requirements for using the software and describes how to install, start, and close the software.
2	Setting the IP Address Describes the parts of the window and how to use them and how to change the IP address.

Scope of This Manual

This manual does not explain the basic operations of your PC's operating system. For this information, read the Windows user's guide or related materials.

Conventions Used in This Manual

Unit	
K	Denotes 1024. Example: 768K (file size)
k	Denotes 1000.
Notes	
	<i>Improper handling or use can lead to injury to the user or damage to the instrument.</i> This symbol appears on the instrument to indicate that the user must refer to the user's manual for special instructions. The same symbol appears in the corresponding place in the user's manual to identify those instructions. In the manual, the symbol is used in conjunction with the word "WARNING" or "CAUTION."
WARNING	Calls attention to actions or conditions that could cause serious or fatal injury to the user, and precautions that can be taken to prevent such occurrences.
CAUTION	Calls attention to actions or conditions that could cause light injury to the user or cause damage to the instrument or user's data, and precautions that can be taken to prevent such occurrences.
Note	Calls attention to information that is important for the proper operation of the instrument.
Reference Item	
▶	Reference to related operation or explanation is indicated after this mark. Example: ▶ section 4.1
Conventions Used in the Procedural Explanations	
Bold characters	Indicates character strings that appear on the screen. Example: Volt
Procedure	Carry out the procedure according to the step numbers. All procedures are written under the assumption that you are starting operation at the beginning of the procedure, so you may not need to carry out all the steps in a procedure when you are changing the settings.
Explanation	The explanation section describes limitations and related information about the operation.

Images

The images used in this manual may differ from those that actually appear in the software. Such differences do not affect the procedural explanation.

Products That This Manual Covers

Product	Version
Data Acquisition Module GM10	Release number 5 Firmware version R5.01.xx and later. In the explanations in this manual, these are referred to as the "main unit" or "GM."
SMARTDAC+ STANDARD IP Address Configurator	R4.03.xx

Revision History

Edition	Software Version	Explanation
1	R2.02.xx	New edition
2	Same as above	Added notes for using the security function (communication login) on the GM10.
3	R3.01.xx	Modified to support the following new options for GM10 release number 3. <ul style="list-style-type: none"> • Aero space heat treatment (/AH) • Multi-batch function (/BT) • OPC-UA server (/E3) • SLMP communication (/E4)
4	R4.01.xx	Modified to support the Program Control option (/PG) for GM10 release number 4.
5	R4.02.xx	Modified to support the R4.02
6	R4.03.xx	Modified to support the R4.05
7	Same as above	Modified to support the R5.01 and Windows 11.

Downloading the Latest Software and Manuals

Download the latest version of the IP Address Configurator from the following URL:
www.smartdacplus.com/software/en/

Download the latest manuals of the Hardware configurator, and the related manuals from the following URL: www.smartdacplus.com/manual/en/

Related Manuals

Manual Name	Manual No.
Data Acquisition System GM First Step Guide	IM 04L55B01-02EN
Data Acquisition System GM User's Manual	IM 04L55B01-01EN
SMARTDAC+ STANDARD Hardware Configurator User's Manual	IM 04L61B01-02EN

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1.1 Overview of IP Address Configurator

1.1.1 IP Address Configurator Features

SMARTDAC+ STANDARD IP Address Configurator is a PC software application for configuring the communication parameters of the GM10 Data Acquisition Module (hereafter referred to as the GM).

IP address setting

You can edit a GM's host name, IP address, DNS server, domain name, domain suffix, and so on as well as register the host name to a DNS server.

GM searching

GM searching

Device call-up

You can send commands to GMs shown in the list. You can check the response by looking at the LED blinking on the GMs.

1.1.2 Installation and Version Updating

Download the latest installer from YOKOGAWA's website (www.smartdacplus/software/en/) to install and update the software: From the Help menu, you can view the software version information and access the link to the website.

Note

- Before installing the software, check that your PC is not infected by a virus.
- Close all other software applications before installing this software.
- To reinstall the software, uninstall the current software first.

Procedure

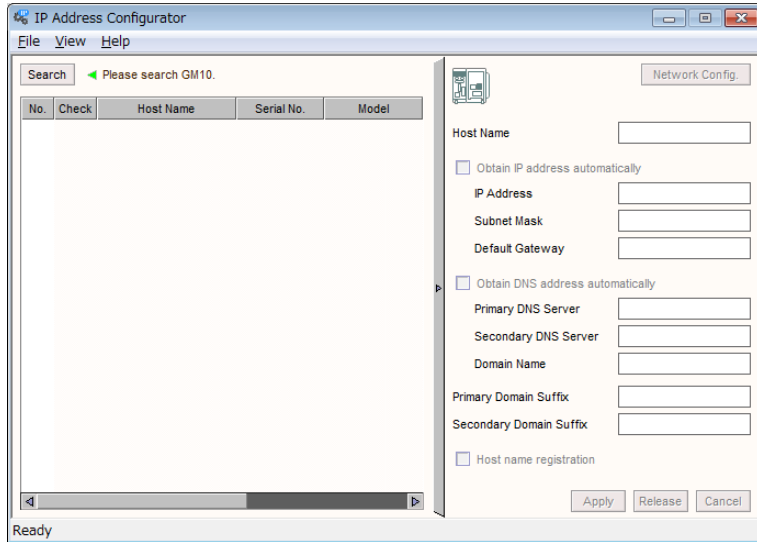
- 1 Double-click the downloaded file to extract the files.
- 2 In the extracted folder, right-click Install.exe, and click **Run as administrator**.
- 3 The installation wizard starts. Continue to follow the instructions on the screen to install the software.
- 4 When the installation is complete, click **Finish**.
SMARTDAC+STANDARD > IP Address Configurator will be registered under All Programs in the Windows Start menu.

1.1.3 Starting and Closing IP Address Configurator

Starting the Software


On the Start menu, click **All Programs, SMARTDAC+ STANDARD, and IP Address Configurator.**

The start window appears.



Names of the parts of the screen and how to use them: ► [section 2.1](#)

Closing the Software

On the File menu, click Exit Application. Or click the close button  in the upper right of the window.

1.2 PC System Requirements

1.2.1 Hardware

PC

A PC running Windows 8.1, Windows 10 or Windows 11.

CPU and Main Memory

PC Configuration	Requirements	
CPU	Windows 8.1 Windows 10	Core2 Duo E6300 or faster x64 or x86 processor.
	Windows 11	Core-i5 or faster and 8th generation later Intel processor, 8GB or more
Memory	Windows 8.1 Windows 10	2GB or more.
	Windows 11	8GB or more.
Hard Disk	Windows 8.1 Windows 10	Free space of at least 100 MB
	Windows 11	Free space of at least 64 GB.
Mouse	A mouse compatible with the OS.	
Display	A display that is compatible with the OS	
Communication port	Ethernet port compatible with the OS and TCP/IP protocol.	
Printer	A printer compatible with your Windows system (a printer driver for the OS is required)	

1.2.2 Operating System

OS	Edition	Service pack	32-bit/64-bit
Windows 8.1		update	32- or 64-bit edition
	Pro	update	32- or 64-bit edition
Windows10	Home		32- or 64-bit edition
	Pro		32- or 64-bit edition
	Enterprise		32- or 64-bit edition
	Enterprise LTSC		32- or 64-bit edition
	Enterprise LTSC		32- or 64-bit edition
Windows11	Home		64-bit edition
	Pro		64-bit edition

Yokogawa will also stop supporting OSs that Microsoft Corporation no longer supports.

1.2.3 Other Operating Conditions

To view the user's manual of this software, you need to use Adobe Reader 7 or later by Adobe Systems (the latest version is recommended).

1.2.4 Security Measures

To deal with security threats, we recommend that you take security measures.

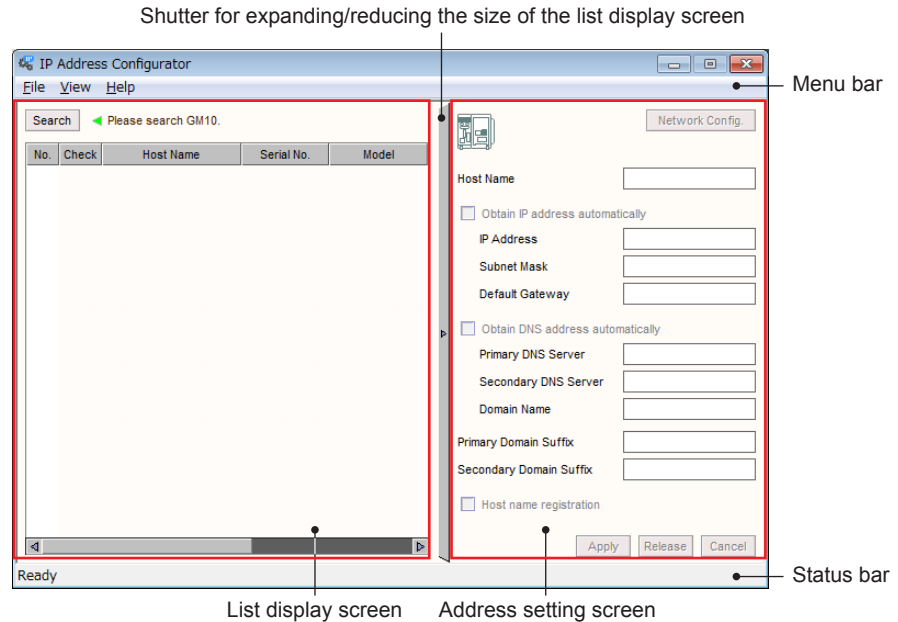
- Apply restrictions to PC network connections.
We recommend that you use an isolated network.
- Manage external media properly.
Prevent malware intrusion through external media, unauthorized file operations on external media, and information leakage due to misplacement.
- Set a strong password and manage it properly.
Use a password that is at least eight characters in length, and include three types of characters from uppercase letters, lowercase letters, numbers, and symbols. Change the password regularly.
- Install antivirus software.
This software has been verified to work on a PC running McAfee VirusScan Enterprise Ver. 4.8.0.887.

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2.1 Names of the Parts of the Screen and How to Use Them

This section explains the window components. For the actual procedure to change the IP address, see section 2.2, “Changing the IP Address”

2.1.1 Start Window



Clicking the shutter for expanding/reducing the size of the list display screen (the bar in the center of the window) hides the Address setting screen and shows the List display screen in the entire window. Clicking it again returns the Address setting screen.

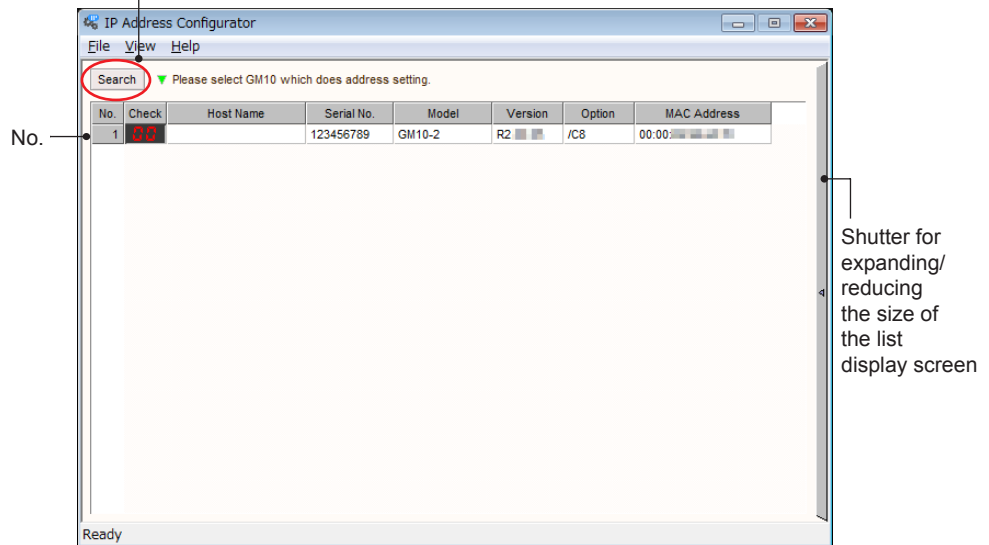
Menu Commands

Menu		Description
File	Exit	Closes the software.
View	Status Bar	Shows or hides the status bar.
Help	User's Manual	Displays the user's manual (this manual).
	About	Displays the version of the software in use.
	Update	A link to the website for downloading the latest version of the software.

2.1.2 List Display Screen

Click Search to search for GMs in the same network segment and display the list of search results. Click a No. cell to select the GM you want to configure.

Search button



Shutter for expanding/reducing the size of the list display screen

GM Information Displayed in the List

Item	Description
No.	1 to 255 numbers are assigned in retrieved order.
Check	If this button is clicked, the 7-segment LED on the main unit of the corresponding GM10 displays --CALL--.
Host Name	The host name is displayed if it is already registered.
Serial No.	The instrument number marked on the name plate of the main module.
Model	GM10-1 or GM10-2 is displayed.
Version	GM10 firmware version.
Option	GM10 option code. See the table below for the description.
MAC Address	The MAC address marked on the name plate of the main module.

Option Display and Description

Refer to MODEL and SUFFIX Codes on GM First Step Guide (IM 04L55B01-02EN).

2.2 Changing the IP Address

Before carrying out the procedure below, turn ON the power to the relevant GMs and connect the GMs to the network using Ethernet cables. When connecting the GMs to the network, make the connection after changing the factory default IP address. (See [2.2.1 Connecting the GM to a PC Locally \(One-to-One\) and Changing the Address](#))

Note

When the GM (firmware version R2.03.01 or later) is in either of the following conditions, the IP address cannot be changed.

- In security settings, **Communication** is set to **Login**.
- The advanced security function (/AS option) is set to **On**, and the GM is recording.

Related topic: ► [2.3.2 If GM's Communication Is Set to Login and the IP Address Cannot Be Changed](#)

2.2.1 Connecting the GM to a PC Locally (One-to-One) and Changing the Address

Locally connect the GM to a PC in which the Address Configurator is installed (one-to-one connection), and change the IP address. The procedure to change the address is the same as that shown below.

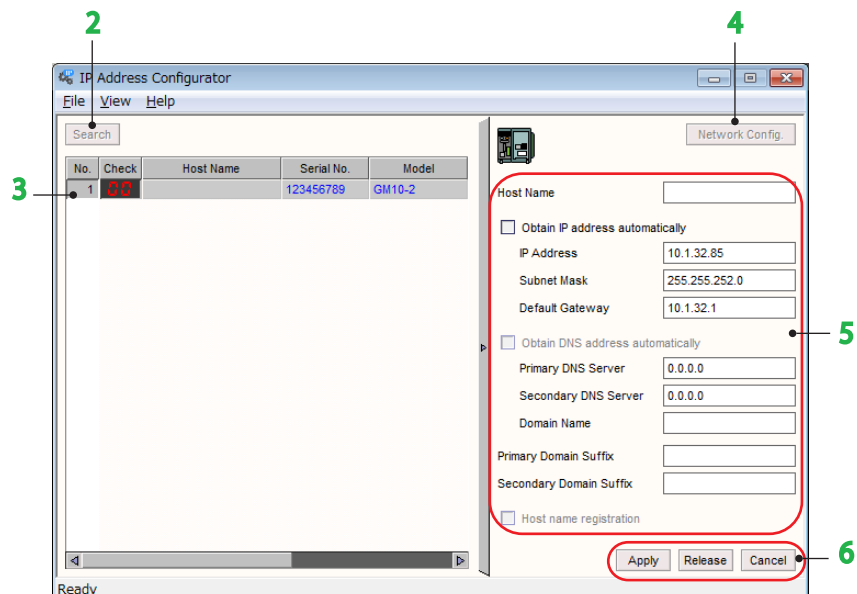
When making a local (one-to-one) connection with the PC, do not set the PC to obtain the IP address automatically. Enter the IP address manually to an address other than the one that is to be assigned to the GM.

Setup Example of the PC and GM

IP address of the PC	192.168.0.100
Subnet mask of the PC	255.255.255.0
IP address of the GM	192.168.0.10
Subnet mask of the GM	255.255.255.0

2.2.2 Changing the Address of the GM Connected to the Network

Procedure



1. Start the IP Address Configurator.
The Address Setting screen is displayed..
2. Click the **Search** button in the List display screen.
The GMs residing in the same segment are displayed.

3. Click the **No.** of the GM whose address you want to change. The information of the selected GM is shown in blue characters.
4. Click **Network Config.** in the Address setting screen. This enables changes to the settings.
5. Enter settings for each item. (See [2.1.3 Address Setting Screen](#) for the details.)
6. Click **Apply** to change the settings of the GM, **Cancel** to exit without saving changes, or **Release** to clear the IP address from the DHCP server.

Note

////////////////////////////////////
To check whether the IP address was obtained correctly each time, click the Apply button, wait a few moments, then click the Search button in the List display screen. If you click the Search button immediately after the change, the IP address, subnet mask, and default gateway may be displayed as 0.0.0.0.
////////////////////////////////////

2.3 Troubleshooting

2.3.1 What to Do When GMs Cannot Be Detected

If GMs are not detected even when you click Search, check the following.

- Check the internet connection status using the ping command. If the ping fails, check the cables, hub, IP address settings, and other factors to determine the cause.
- Check that procedures performed on the software are correct.
- If the Windows OS firewall is enabled, GMs may not be detected even when you click Search.
Change the settings of Windows Firewall. For details on how to change the settings, check the Microsoft support website.
- Note that this software does not support multiple network adaptors. If the multiple network adaptors are being enabled (example: Both cable LAN and wireless LAN), disable the network connections other than GM.
Go to **Start > Control Panel > Network and Sharing Center**, then click **Change adapter settings** in the left-hand column. Right-click on the unused connection and select **Disable**.

2.3.2 If GM's Communication Is Set to Login and the IP Address Cannot Be Changed

In the security settings of the GM, if Communication is set to **Login**, you cannot change the IP address from this software. To change the GM IP address, use either of the following methods.

- When serial communication, USB communication, or Bluetooth communication is possible between the GM and PC
Connect the GM to the PC using one of the communication schemes, and use SMARTDAC+ Hardware Configurator to change the IP address. If you use this method, you do not have to turn off the GM.
- When local Ethernet (one-to-one) connection is possible between the GM and PC
Connect the GM to the PC locally with an Ethernet cable. Turn off the GM, and restart it in fixed IP address mode. Then, use the GM's Web application or SMARTDAC+ Hardware Configurator to change the IP address.

Note

- For details on the GM fixed IP address mode and Web application, see the *GM Data Acquisition System User's Manual* (IM 04L55B01-01EN).
- For details on how to use Hardware Configurator, see the *SMARTDAC+ STANDARD Hardware Configurator User's Manual* (IM 04L61B01-02EN).

2.3.3 Errors and Messages

Code	Message	Description and Corrective Action
5000	Failed to store.	Check the operation mode of the GM. If the GM is in a mode other than the normal operation (such as A/D calibration, Encryption, and Update), return it to the normal mode. Or, check the GM security settings. The IP address cannot be changed in the following situations. <ul style="list-style-type: none">• Security settings > Security basic settings > Security function > Communication is set to Login.• The advanced security function (/AS option) is set to On, and recording is in progress.