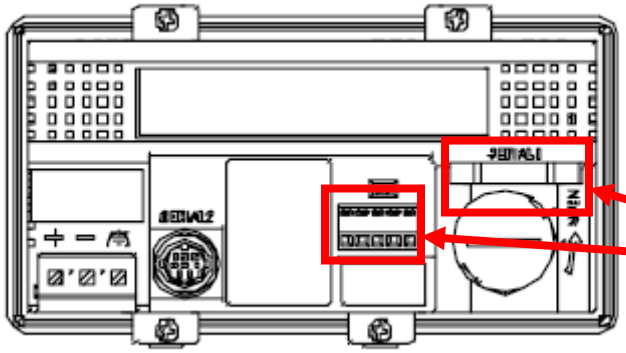
HG1F-SB22YF-*
(RS-485/RS422 Type)

HG1F-SB22YF-*

Back View



Two "RS-485/RS-422" Ports Available:

1. 9-Pin Connector Type
2. Terminal Type

Part Number **HG1F-SB22YF-*,** has two available RS-485/RS-422 ports to communicate with the PLC (use either 9-Pin Connector or Terminal Type).

Terminal Block Type (RS-485/RS-422 Comm. Port) of HG1F-SB22YF-*:

Some of the Terminal pin number layout on all table wiring diagrams in Host I/F Manual are incorrect.

Table1. Shows the wrong terminal pin layout in the Host I/F Manual versus the correct pin layout

Label	Terminal Pin Layout	
	Wrong	Correct
SDA	1	1
SDB	**3**	**2**
RDA	**2**	**3**
RDB	4	4
SG	5	5

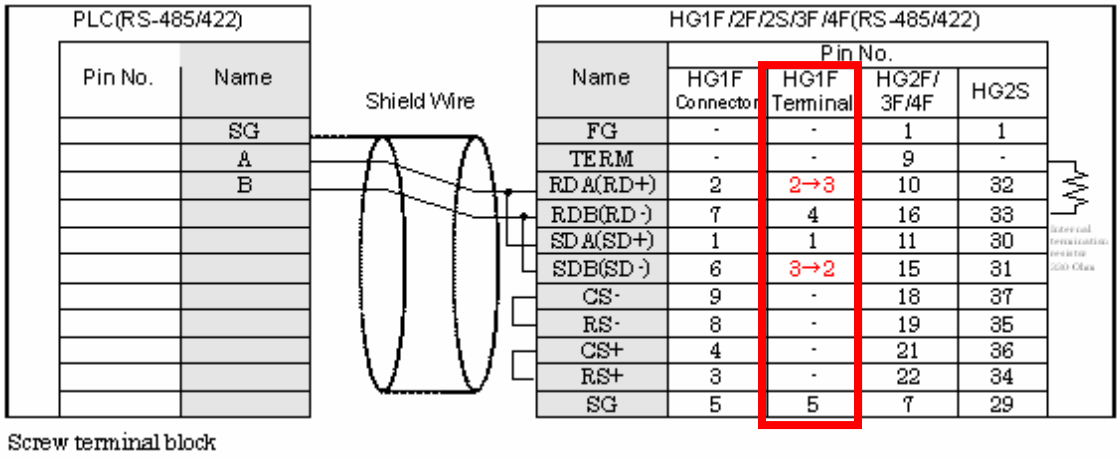
* Terminal SDB: Pin Number 3 is now replaced with Pin Number 2
* Terminal RDA: Pin Number 2 is now replaced with Pin Number 3

Note: When using the Terminal Block type of HG1F for communication, refer to Table1 (above) and make the necessary changes to the Pin Number on the table wiring diagram in Host I/F driver Manual.

Figure1: Shows correct Terminal type diagram.

No.	Name	Function
1	SDA	Send Data A
2	SDB	Send Data B
3	RDA	Receive Data A
4	RDB	Receive Data B
5	SG	Signal Ground

Example1: Wiring diagram 1-6 between Idec Microsmart (with FC4A-PC3/HPC3) and Terminal Type RS-485/RS-422 of HG1F.



Under "HG1F Terminal" pin layout, the following pin numbers are corrected according to their labels (see Table 1 above as the reference).

2 → 3 : Pin #2 is now Pin #3

3 → 2 : Pin #3 is now Pin #2

Therefore, the correct wiring on the HG1F Terminal side as follows:

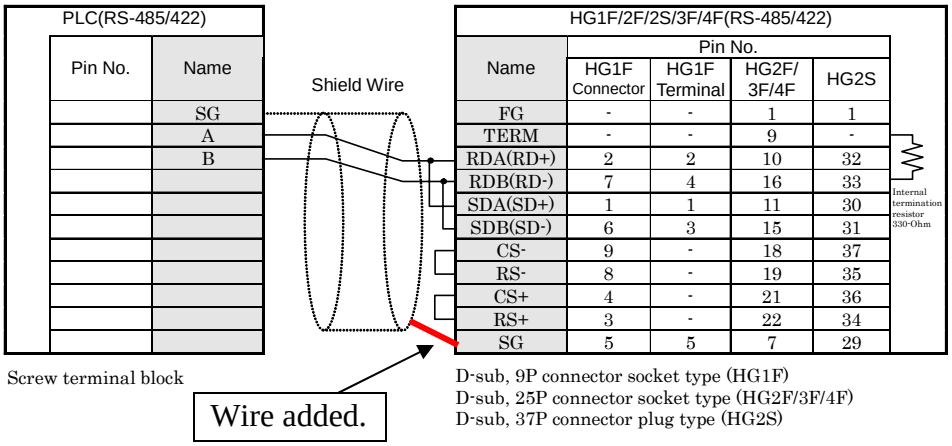
Pin#3 (RDA) and Pin#1(SDA) are connected.

Pin#4 (RDB) and Pin#2 (SDB) are connected.

Correction on Wiring Diagram 1-6

The wiring diagram 1-6 is lacking one connection.

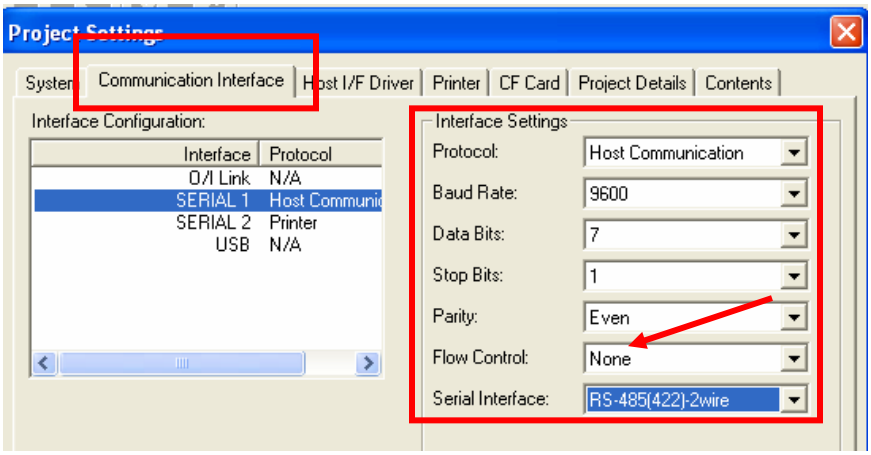
The connection is between signal ground (SG) of MICRO/I and Shield Wire (refer to the RED line connection).



Hardware Flow Control of HG1F-SB22YF-*

When you use the Terminal Block type of HG1F-SB22YF-*, make sure to configure the **Hardware Flow control to NONE** because the HG1F doesn't have control lines.

Example 2: During configuration of HG1F-SB22YF-* in WindO/I-NV2, make sure the communication settings are as shown in the image below.



Using Mitsubishi MELSEC-A / FX Series PLC:

When you connect to the CPU port of MELSEC-A series and MELSEC-FX series of Mitsubishi Electric, use D-sub 9Pin connector, NOT the Terminal Block type.

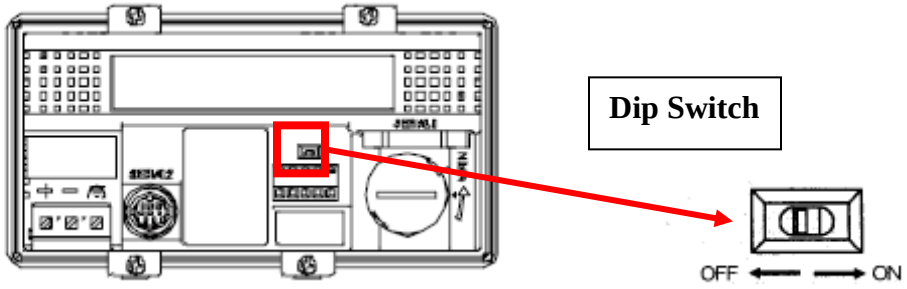
9-Pin Connector Type RS-485/RS-422:

There are no changes to the information. As usual, please refer to WindO/I-NV2 Users Manual **PDF** and select "Host Interface Manual" then "Connection to a PLC" to find information on supported PLCs, addressing, communication settings, and wiring diagram.

Note: Cables are also available to purchase. Please click the link below for partnumbers.

http://www.idec.com/usen/products/Catalogs/OperatorInterfaces/HG1F/productlist.html

Terminating Resistance Selector Switch



It is recommended to use Termination resistance because it improves the noise resistance.
To enable the Terminating Resistance, switch the selector to ON and connect the terminating resistance of 330 ohms between RDA and RDB.

Note: If you are using Micro3, OpenNet Controller (FC3A), and Microsmart (FC4A/FC5A), DO NOT USE the Terminating Resistance, not applicable.