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# Preface

Thank you for purchasing the GP Screen Editor Software, "GP-Pro EX".

Please read this manual carefully in order to use this software properly, and be sure to keep this manual handy for future reference.

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# 1 How to Use This Manual

## ■ Structure of the Manual

This "GP-Pro EX Device/PLC Connection Manual" describes how to connect the External Device to the display. Please refer two other manuals shown below related to this manual.

Besides these manuals, data files of additional functions, information and modified information are attached depending on the situation.

To see these additional data files, click [Start] button in your Windows OS main screen and select the [Programs (P)] - [Pro-face] - [GP-Pro EX] menu. Then, click [Read Me] .

Please refer to "Hardware Manual" for details about the display.







Reference Manual	Describes GP-Pro EX's operation procedures and details on all features. It consist of HTML and PDF data.
Device/PLC Connection Manual	Describes the methods for connecting the GP to supported devices/PLCs from other manufacturers. Provided as HTML and PDF data.
Maintenance / Troubleshooting	Describes the solution when they have problems in the settings of GP-Pro EX and the use of Display on the spot. It consist of HTML and PDF data.

## 2 Manual Symbols and Terminology

This manual uses the following symbols and terminology.





### ■ Safety Symbols and Terms

This manual uses the following symbols and terms to identify important information related to the correct and safe operation of GP-Pro EX. The symbols and the descriptions are as follows.

Symbol	Description
 <b>DANGER</b>	Indicates a hazardous situation that could result in serious injury or death.
 <b>WARNING</b>	Indicates a potentially hazardous situation that could result in serious injury or death.
 <b>CAUTION</b>	Indicates a potentially hazardous situation that could result in minor injury or equipment damage.
	Indicates instructions or procedures that must NOT be performed to ensure correct product use.
	Indicates instructions or procedures that MUST be performed to ensure correct product use.
	Indicates a potentially damaging action or dangerous situation that could result in abnormal equipment operation or data loss.

### ■ General Information Symbols and Terms

This manual uses the following symbols and terms for general information.

Symbol	Description
	Provides hints on correct product use, or supplementary information.
	Indicates an item with an explanatory footnote.
	Indicates an item's related information.
	Indicates an operation procedure. Operate according to the numbers.









## ■ Terms

In this manual, the following terms are used to explain.

Shown as	Descriptions
Display	General Name of GP, LT, IPC, PC/AT
GP	GP3000 Series
LT	LT-3300 Series
IPC	PS-2000B Series PS-3450A, PS-3451A Series PS-3650A, PS-3651A Series PS-3700A(Pentium® 4-M)(REV.J or higher) PS-3710A, PS-3711A Series PL-3000B Series
PC/AT	Personal Compter compatible Windows® 2000 or Windows® XP
PLC	Programable Logic Controller

## ■ Supported Devices Symbol and Terms

The meaning of symbols used in the section titled "Supported Devices" are described below.


Symbol	Description
	Setup the address as Octal.
	Word address' bottom column bit can only be set to 0.
	Word address can only be set to multiples of 16.
	Word address can only be set to multiples of 16 + 1.
	Word address can only be set to even numbers.
	Word address can only be set to multiples of 8.
	Bit setup possible. After the word address, set the bit position, from 0 to 15.
	Bit setup possible. After the word address, set the bit position, from 0 to F.

Symbol	Description				
<b>Bit 7</b> *1	Bit setup possible. After the word address, set the bit position, from 0 to 7.				
<b>Bit 31</b> *1	Bit setup possible. After the word address, set the bit position, from 0 to 31.				
<b>L/H</b>	When using 2 words (32 bit data), the relationship between the top and bottom data is: <div style="display: flex; align-items: center; margin-left: 100px;"> <span style="margin-right: 5px;">0</span> <table border="1" style="border-collapse: collapse;"> <tr><td>L(low pos.)</td></tr> <tr><td>H(high pos.)</td></tr> </table> </div> <div style="display: flex; align-items: center; margin-left: 100px; margin-top: 5px;"> <span style="margin-right: 5px;">1</span> <table border="1" style="border-collapse: collapse;"> <tr><td>H(high pos.)</td></tr> <tr><td>L(low pos.)</td></tr> </table> </div>	L(low pos.)	H(high pos.)	H(high pos.)	L(low pos.)
L(low pos.)					
H(high pos.)					
H(high pos.)					
L(low pos.)					
<b>H/L</b>	When using 2 words (32 bit data), the relationship between the top and bottom data is: <div style="display: flex; align-items: center; margin-left: 100px;"> <span style="margin-right: 5px;">0</span> <table border="1" style="border-collapse: collapse;"> <tr><td>H(high pos.)</td></tr> <tr><td>L(low pos.)</td></tr> </table> </div> <div style="display: flex; align-items: center; margin-left: 100px; margin-top: 5px;"> <span style="margin-right: 5px;">1</span> <table border="1" style="border-collapse: collapse;"> <tr><td>L(low pos.)</td></tr> <tr><td>H(high pos.)</td></tr> </table> </div>	H(high pos.)	L(low pos.)	L(low pos.)	H(high pos.)
H(high pos.)					
L(low pos.)					
L(low pos.)					
H(high pos.)					

\*1 They are used for bit writing, other bits are set to zero.

The device ranges listed in the sections titled "Supported Devices" are the maximum setup ranges. The ranges may be smaller than illustrated, depending on your PLC type. For further details, refer to the corresponding PLC manual.

Setup the System Area in the devices that are shaded.

 GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"

