

Index

Numerics

16 levels	8-36
16 State	13-13
16384 Colors	8-36
256 Colors	8-36
3-speed blink	8-36
4096 Colors	8-36
5 State	13-8
65536 Colors	8-36

A

About Backup SRAM	19-81, 24-118, 25-109
About GP-Pro EX	1-2
Add Data	10-13
Add/Delete Font	6-5
Address Action	25-95
Address Block Conversion	5-47, 5-117
Address Format	29-17
Address Monitor	29-95
Address Refresh	29-125
Address Settings Window	5-129
Adjusting the Time	35-4
Adjusting Time	35-1
Alarm Feature List	19-167
Alarm History	19-20, 19-31
Alarm History Backup	19-76
Alarm History Data	25-29
Alarm List View	19-14
Alarm parts	19-105
Alarm Settings [Alarm Settings]	19-69
Alarm Type	19-70
Alarms [Alarms]	19-1
Align	17-75, 17-77, 17-78
Aligning	8-33
Allow Input [Allow Input]	14-57, 14-61, 14-93, 14-97
Animation	8-87, 20-1, 22-23
API	38-33
API Communication	38-168
Application Trigger	21-145
Automatic Numbering	25-106
AUX Output	10-56
Auxiliary Line	18-136

B

Backing Up a Project File	5-23
Backup	5-192
Backup SRAM Capacity	5-108
Banner	19-80
Bar Code Reader	16-2, 16-4
Base Layer	20-51
Batch Print	19-73
Bit Logic System Variables	A-94
Bit Monitoring	19-21
Bit Switch	10-51, 10-90
Bitmap Font	6-18, 6-21, 14-66

Bitmap Image	6-18
Block [Block]	19-106
Block Display	18-43
Blue-mode monochrome LCD	8-36
BMP/JPEG, Pasting	8-71
Branch	29-34
Bulletin Message	5-156, 17-45
Buzzer	10-56, 26-1, 26-7, 26-10

C

Calculation Examples	21-176, 21-177, 21-178, 21-179
Call and Display Pictures	9-4, 9-10, 9-17
Calling a Function	21-60
CAN Specification	30-157
Cancel Printing	34-37
CANopen	30-157
Caution When Saving to a CF Card	19-60, 24-157
Center	17-76, 17-78
CF Card	5-217, 33-30
CF Card Cautions for Use	5-216, 11-27, 19-61, 24-158, 25-118
CF Card Connection	33-29
CF Card Folder	5-53, 5-109
CF card to USB storage	A-82
CF Card, initialize	33-38, 33-44
CF File Operation	21-110
Change Attribute	5-75, 8-30
Change Backlight Color	5-204
Change Base Screen	19-36
Change File Name	21-125
Change Screen Color	5-74
Change Screen Switch	10-69, 10-99
Change View	5-210
Changing a Device/PLC	7-18
Changing Alarm Language	17-97
Changing and Displaying Messages (Text)	17-4
Changing Coordinates	8-35
Changing Device/PLC	7-38
Changing Screens	11-4, 11-10, 11-13, 11-21
Changing the Displayed Text	17-8
Changing Values [Changing Values]	14-37
Character Code Table	8-82
Character Codes	6-6
Checking Memory Usage	29-112
Choosing the Screen to Display when the GP Turns on	11-7
Clear Area	15-37, 15-50
Collectively Editing Symbol Variables	29-152
Color Animation	20-26
Color Code Table	A-68
Color Code	9-52
Color Combinations	9-50
Color Palette	8-40
Color Setup	8-36
Color-Changing Switch	10-31

Command and Status	19-58
Commands/Conditional Expressions	21-68
Comment	29-63
Comment List	29-161
Common Settings	5-203
Common Settings Window	5-131
Communicating with Multiple Devices/PLCs	7-1
Communication Cycle Time	A-25
Communication Error Code	A-25
Communication	A-2
Compare Memory	21-81
Compare projects	33-25
Comparison	10-16, 21-153
Compatibility	2-2
Condition Action	25-92
Condition Name Search Feature	25-100
Conditional Expressions	21-49, 21-148
Confirm Address List	5-38
Confirming the Communication State	7-15
Convert	2-2
Convert Resolution	5-147
Converting Movie Files	27-43
Copy A Screen	5-77
Copy Memory	21-83, 21-87
Copy Tool	38-179
Copying Data in Blocks	21-12
Copying From Other Projects	5-121
Create Backup Data	33-38
Creating Project Files	5-9
Creating Scripts	21-42
Cross Reference	5-39, 5-120
CSV Data	25-4, 25-10, 25-18, 25-25, 25-29
CSV Data Transfer	25-3, 25-54, 25-59, 25-90
CSV format	24-20, 25-10, 25-29
Cursor Shape	19-137

D

Data Block Display Graph	18-94
Data Block Display Graph Structure	18-99
Data Buffer To Internal Device	21-166
Data Capacity Per Screen	5-213
Data Display	6-18, 14-1, 14-42
Data Input [Data Input]	14-1
Data read/write	38-37
Data Sampling	24-1
Data Storage Mode	21-118
Date/Time Display	14-104
Debug Function	21-143
Debugging	34-4
Delay Feature	10-115
Delete File	21-135
Device Access API	38-97, 38-178
Device Conversion	7-23
Device Monitor	A-46
Device/PLC	5-186
Device/PLC Series Settings	5-104
Device/PLC System Data Area Allocation	A-26
Devices Before and After Conversion	2-7

Direct Access and Memory Link, using together ...	A-42
Direct Access Method	7-8, 7-10, 11-25, A-4, A-9
Direct Access Method + Memory Link Method	7-9, 7-11
Direct Selection [Direct Selection]	19-120
Display Address List	5-39
Display Alarm Message (Banner) Position	19-9
Display Block	19-106
Display Historical Data	18-87
Display Position Point	9-9, 9-16, 9-53
Display Scan Time	A-25, A-40
Display Settings	5-146, 5-103
Display Unit	5-148
Displaying Alarms	21-17
Displaying Characters Not Available In Character Code Table	8-86
Displaying CSV Data	25-35
Displaying/Clearing a Data Block Display Graph	18-46
Documenting	34-4
Double Touch	10-28
download from external storage	33-37
DRAM	24-119
Draw	8-1
Drawing Arcs/Pies	8-15
Drawing Circles/Ovals	8-13
Drawing Dots	8-8
Drawing in Other Languages	A-74
Drawing Line/Polyline	8-9
Drawing Polygons	8-17
Drawing Rectangles	8-11
Drawing Scales	8-19
D-Script	21-2
Duplicate	8-28

E

Edit	8-25
Editing CSV Data	25-39
Editing Parts	8-45
Enable System Data Area	11-12, 11-17, 12-21, 26-9, 26-12
Enlarging and Reducing	8-27
Error Check	5-125, 5-196
Ethernet Multilink	5-180, 7-28
Event Recorder	27-22, 27-85
Expert Mode	5-105, 20-48
Extended Script	21-2
Extended Settings [Extended Settings]	19-70

F

File Manager	25-83
File Manager [File Manager]	A-89
File Name	19-59
Filing Data	25-5, 25-41, 25-44, 25-50
Filing Data Capacity	25-110
Filing Data Transfer	25-3, 25-61, 25-65, 25-108
Fill	8-12, 8-14, 8-16, 8-18, 8-22
Fixed Pin	5-136, 8-35
Fixed Position	17-75
Flip	8-34

Flow for saving to a CF Card	19-57
Font [Font]	6-21
Font Types	6-2, 6-4
Free Space on Storage Device	11-26
Freeze Mode	19-136
Front Layer	20-51
FTP Server	5-217, 34-15
FTP server	A-89
Function Expansion Memory [Function Expansion Memory]	19-70
Function Key	38-77, 39-1
Function Name	21-65

G

Global D-Script	21-2
Global Function Key	39-9
Global Interlock	22-11, 22-48
Global Window	12-5, 12-15
GP Remote Printer Server	34-9
GP-PRO/PBIII for Windows	2-2
GP-Viewer	7-32
Graph Part Settings	18-51
Graphic	8-7
Grid Setup	8-64
Group Number Function	14-124
Grouping	8-31
Groups	10-116, 19-79
Guard Time	30-239

H

Hand-held GP	39-1
Handling API	38-55, 38-87, 38-178
Header/Footer	5-68
Hierarchical Screen Change	11-21
Historical Data Display	18-32
Historical Trend Graph	18-67
HMI system variables (#H system variables)	A-114
Horizontal Animation	20-33
HTB	30-158
Hue	20-32

I

If data cannot be sampled	24-139
IIS FTP Service	34-16
IL	5-198, 5-202, 5-211, 29-37
Image Font	6-14
Image Registration	9-23
Import Data Link	29-168
In Use	6-21
Index File	25-101
Initialize Memory	21-95, 21-96
Input Code Table	8-86
Input Display	14-117, 15-22
Input Equipment Settings	16-22
Input Order Function	14-123
Install Transfer Tool	33-72
Instructions	29-41, 29-105
Integer Logic System Variables	A-98

Interlock	10-19, 14-25
Interlock Settings	22-47
Internal Device Address	A-5, A-7
Internal Device To Data Buffer	21-164
IPC Settings Display Settings	38-162

J

Japanese FEP	15-51
JPEG file, screen capture	11-18

K

Kanji Conversion	15-39, 15-51
Key code, Remote PC Access	36-4, 38-2
Keypad	15-3, 15-7
Keypad Registration	15-34
Keys	15-38

L

Label	10-61, 29-53
Ladder	5-198, 5-202, 5-211
Ladder Instruction Insertion	29-41
Ladder Instructions Icon List	29-147
Ladder Monitor	A-48
Lamp	13-31
Language	5-192
Language Change Settings	17-65
Layer Separator	20-51
Lifetime factor	30-239
Line Chart	24-14
Line Type Setup	8-44
List of Script Error Code	21-67
Load Screen	8-57, 8-58
Local Function Key	39-6
Local Window	12-4, 12-8
Lock Password	5-34
Logic Memory	29-112
Logic monitor	29-92
Logic Program Error Correction	29-77
Logic Program Restriction	29-115
Logic System Variables (#L system variables)	A-94
Logic View	32-26
Loop	11-26
Loop Function	25-107
LS Area	A-8

M

Main Functions	21-27
Main Window	5-98
Manual Symbols and Terminology	1-5
Mark	8-76, 8-106
Mark Registration	8-103, 8-104
Master GP	7-27
Memory Link Method	11-25, A-6
Memory Loader	33-37, 33-67
Memory Operation	21-78
Memory Restriction	29-115
Memory Ring	21-88
Message Display	17-48, 19-152

Meter Graph	18-63
Model [Model]	6-20, 14-66
Model Environment[Model Environment]	1-7
Model Names Before and After Conversion	2-2
Monitor Step	5-201
Monochrome 16 Levels	8-36
Monochrome LCD	8-36
Move	8-27
Move Range and Move Direction	9-22
Movie Converter	27-43
Moving Display	9-17
Moving The File Manager	25-38, 27-42
Multifunction	10-37, 10-116
Multilanguage	17-15, 17-24

N

Name Of Each Part Of The Screen	5-98
Normal Graph	18-52
Normalized Data	18-122
Number Of Features That Can Be Placed On A Screen	5-213
Number of Scripts	21-60
Number Of Windows	12-31
Numeric Display	14-44

O

One Shot	10-56
Online Editing	29-86
Online Monitor	29-79
Online Updates	2-23, 5-192
Operand	5-197, 29-7, 29-57
Operand Settings	29-57
Operating Environment	3-3, 3-4
Operation	21-6
Operation Example	21-176
Operation Lock	5-180, 7-32, 10-76, 37-12
Operation Results	21-66
Operation Switch	39-6
Operator	21-155
Other Languages	17-15, 17-24
Output File List	21-133
Overlapping Pictures	9-8, 9-12

P

Package Content	3-2
Package Registration	8-62, 8-106
Parameter for read/write	38-100
Part Name	29-7
Parts Palette	8-47
Parts Toolbox	5-101
Password	5-27, 5-110, 5-113, 29-128, 33-32
Passwords For Edit Project	5-28
Passwords Remove/Change	33-35
Pattern Setup	8-44
Pen Recorder	18-69
Peripheral List	5-183
Picture Display	9-25, 19-151
PID Monitor	29-162

Placing Graphics Registered in a Package	8-60
Play List File	27-25
Playing a Movie	27-25, 27-34
Polling Frequency	19-93
Popup Keypad	15-3, 15-48
Position Animation	20-33
Precautions	1-7
Precautions When Saving to a CF Card	5-216
Preferences	5-192
Prevent Entering Data Outside Allowed Range	14-29
Preview	5-17
Print Feature	34-12
Print Format	19-74
Print Layout	34-8
Printer Configuration	34-14, 34-25
Printer Operation	21-137
Printer Output	21-21
Printer	34-12
Printer Types	34-11
Printing Alarm History	19-160
Printing CSV Data	25-40
Procedure for Creating Scripts	21-23
Processing	14-85
Program	21-2
Prohibit Double Calling API	38-129
Project Converter	2-12
Project File	5-9
Project Information	5-51
Print	34-4, 34-47
Properties	5-105
Properties Window	5-136
Pro-Server EX	38-11
Protecting Objects	8-35
Pulse	29-62

R

Radio Switch	10-39
Read Area	18-100
Read CSV File	21-127
Read File	21-130
Reading Text in VB	38-130
Real-time Print	19-73
Real-Time Video	27-8
Receive	33-9, 33-18, 33-71
Recipe Data	25-29
Recipes	25-2
Recipes Settings	25-54
Recording Video Before and After a Malfunction	27-20
Reflect in Device/PLC	11-16
Register Date and Time	23-1
Registering Addresses	29-8
Remote PC Access	36-2
Remote PC Access (RPA) input	36-27
Remote PC Access (RPA) Window Display	36-21
Replace	5-81
Retentive Accumulation/Count	19-79
Retentive Transfer	29-75
RGB	27-119

RGB Unit	27-129
Rich Text File	34-4
Rotate	8-34
Rotation	20-39
Rung and Branch Insertion	29-27
Running External Operations from Multiple Display Units [Running External Operations from Multiple Display Units]	19-164
Running the Application from WinGP	38-71, 38-77

S

Sampled Data	24-14
Sampling	24-2
Sampling Data	25-29
Sampling Data Display	24-110, 24-134
Sampling Data Display Format	24-30
Sampling Data Storage Methods	24-130
Sampling Data Timing	24-122
Sampling Group List	18-13, 18-28, 24-37
Sampling Structure	24-117
Save as CSV	19-54
Save Location	19-59
Save to a CF Card Control Word Address	19-58
Save to CF card	11-18, 24-20, 25-10, 19-54
Saving a Movie File to the CF Card	27-13
Saving a Movie File to the FTP Server	27-16
Saving the Displayed Screen	11-18
Scan Time	29-117, 29-120, 29-170
Screen Capture	5-218, 11-18, 11-26
Screen Data List Window	5-138
Screen Display, Turning Off	35-8, 35-10
Screen Hard Copy	34-27
Screen Information	5-209
Screen List Window	5-134
Screen Saver	35-1, 35-8
Script	5-199, 21-2, 21-54
Script I/O Settings	5-190
Script Operation Overview	21-27
Scrolling Alarm Messages	19-7
Search	5-81, 5-140
Search Memory	21-91
Search/Replace	5-81
Security	29-128
security level list	22-46
Security Settings	22-40
Selector List Parts	10-88
Selector Switch	10-86
Send	33-6, 33-13, 33-70
Send Web Site	33-60
Sequential Input [Sequential Input]	14-33
Setting Up Blink	8-44
Setting Up User-Defined Functions	21-45
Shift Memory	21-97
Show Address	8-102
Show CSV	25-78
Show Fixed Pin	8-101
Show Grid	8-100
Show History	19-106

Show Limit Value	14-114, 15-22
Show Parts ID	8-102
Show Ruler	8-101
Show Scale	18-102
Show Text Window	19-42
Show Touch Area	8-101
Simulation	32-1
SIO Port Operation	21-62, 21-100
Site Transfer	33-64
Slave GP	7-27
Snap to Grid	8-99
Sort	25-87
Sound	26-1
Sound Settings	26-13
Space Requirements for Alarm History Data	19-81
Speaker	26-3
Special Data Display	25-69
Special Relay	A-23, A-38
Special Switch	10-70, 10-100
SRAM Auto Backup	5-218
Standard Font	6-3
Standard Line	18-79
Starting and Ending the Logic Monitor	29-90
Startup	5-1
State List	10-59
Statistical Data Display	14-107
Statistical Graph	18-61
Steps	29-7
STN Color LCD	8-36
Stop Communications	7-13
Stroke Font	6-3
Structure of Extended Scripts	21-22
Sub Display	19-35
Sub Display Using a Global Window	19-153
Sub Display Using a Local Window	19-153
Subroutines	5-207, 29-49
Subtract Data	10-13
Summary	19-80, 19-139
Supported Colors	8-36
Supported Functions, List By Device	1-8
Supported Model List	3-8
Switch Lamp	10-48
Switches	10-1
Symbol	5-59, 29-8
Symbol Variable	29-8, 29-115
Symbol Variable Settings	5-206
System Keypad	15-31
System Area	A-29
System Data Area	7-10, A-11, A-30
System Settings Window	5-127, 5-146
System Variable	29-9, 29-26, A-93

T

Text Table	17-63
Template Registration	5-211
Template, Save As	8-69
Templates, Selecting a Screen	8-67
Text	8-92

Text Alarm [Text Alarm]	19-143, 19-166
Text Data Mode	5-187
Text Display	14-88
Text Display Area	17-75, 17-76, 17-77
Text Operation	21-159
Text Operation Error Status	21-168
Text Registration	17-62
Text Table	17-15, 17-24, 17-31, 17-36
TFT Color LCD	8-36
Thin Out	18-75
Time Schedule	23-10
Time zone	37-80
Time-Base	14-75
Time-Base Function	14-75
Toolbar Customization	29-145
Transfer over USB Transfer Cable	33-5
Transfer Project Files	33-6
Transfer Projects Using CF Card	33-37
Transfer Settings	33-61
Transfer Tool	33-58
Transfer Tool Installation Requirements	3-6
Transferring Project Files via Ethernet (LAN)	33-12
Transparent Parts	10-49, 18-51, 14-43
Trend Graph	18-13, 18-32
Trigger Action	A-59
Trigger	21-47
Two-dimensional Code Reader	16-4, 16-11

U

Ungrouping	8-31
Upload to External Storage	33-37, 33-44
Usable Addresses	A-4, A-6
Usage Capacity of Sampled Data	24-119
USB Storage	5-217
USB Storage Device Handling Instructions	5-217
USB Storage Handling Instructions	24-158
USB storage to CF card	A-82
User Keypad	15-22, 15-33
User-created Keypad	15-10
User-Defined Functions	21-59
Using File Manager to Play Movies	27-40
Using Logic	29-3
Using Modem to Transfer Screen Data to a Remote GP 33-50	
Using the Web Server to Transfer Files to the CF Card or USB Storage	37-57
Utility	5-117

V

Variable	29-8
Variable format	29-10
VB.NET 2003 Program	38-56
VB.NET 2003 Program Example	38-38
VB6 Program Example	38-65
Vertical Animation	20-36
Video Control Area, Example Use Of	27-141
Video	27-1
Video Recording	27-1

View Addresses In Address Map	5-42
Visibility	20-23
VNC Server	36-2
VNC server, RPA	36-7

W

Watch List	29-166
Web Server	37-1
Window Frame	38-169
Window Part	12-22
Window Screen	19-153
Window, Changing Displayed	12-12, 12-18
Windows XP Embedded	38-11
Windows, Creating	12-4
Windows, Displaying	12-8
WinGP	38-2, 38-26
WinGP SDK	38-13
WinGP, exiting	21-147, 38-26
Word Monitoring	19-26
Word Switch	10-65, 10-95
Work Space	5-127
Write Data	10-10
Write File	21-121
Writing Text	8-23

X

XOR display	9-29, 9-49
XY Block Display Scatter Graph	18-126
XY Historical Scatter Graph	18-111

Z

Zoom Box	5-102
----------------	-------