

## What's new in WindLDR Version 6.21

### <Application Software>

#### Bugs Fixed

The following problems have been fixed:

- Projects may not be opened if the projects are saved after Expansion Data Register Settings dialog box is opened and closed.
- When a user program is uploaded from a PLC, the program is not restored correctly if the program contains contacts that are connected to multi-input instructions, such as CNT or SFR, and are programmed in multiple ladder lines using the continuation lines.
- When PIDST instructions are uploaded, the set points of those PIDST instructions are always restored as integer values even if the data types of those PIDST instructions are word.
- If MOV, SET, or RST instructions are programmed with PIDST instructions in parallel, those MOV, SET, or RST instructions are removed when the user program is uploaded from PLCs.
- T or C may not be converted to TC/TP or CC/CP automatically when it is entered in Edit Instruction dialog boxes.
- Device data list created with WindLDR V5.x may not be read in WindLDR V6.x.
- Program is not printed properly when landscape is selected.
- Non-ASCII characters can be entered as the password in Function Area Settings dialog boxes.

# What's new in WindLDR Version 6.20

## <FC5A System Program>

The following functions are introduced in FC5A system program version 220.

- FC5A-SIF4 expansion RS485 communication module.
- Data Link Communication and Modbus Master/Slave for Port 3 to 7.
- Communication speed of 57,600 and 115,200 bps for Port 3 to 7.
- Run/Stop selection at power up.
- Communication Refresh option for Port 3 to 7.

## <Application Software>

The following functions are introduced in WindLDR 6.2.

### 1. FC5A System Version 220 Support

The support for the FC5A system version 220 has been added.

### 2. HG2G Ethernet Pass-Through Support

Support for HG2G Ethernet Pass-Through has been added.

### 3. Cross Reference dialog box

The following improvements have been made:

- Cross Reference dialog box is docked to WindLDR main window.
- The device address is automatically updated when the ladder cursor is moved.
- The width of the columns is saved and restored when WindLDR is launched.
- The show/hide status of the columns can be toggled from the shortcut menu.

### 4. Shortcuts

The following 3 shortcuts have been added to the ladder editor.

- F3/Shift+F3: The device address under the ladder cursor is searched downward/upward
- Ctrl+F3: All instructions using the device address under the ladder cursor are searched and listed in the Info Window.

### 5. Project Window

Shortcuts to open Function Area Settings dialog and Tag Editor have been added to Project Window.

### 6. Communication Settings dialog box

The following improvements have been made:

- Options to configure the communication packet size and the interval between packets for Download are added in Serial.
- PLC network settings to configure 1:N computer link communication are added in Ethernet.

### 7. Bugs Fixed

The following problems have been fixed:

- When the program size is large, Print/Print Preview may fail.
- When a period is contained in the project name, Print/Print Preview fails.

## <Manual>

### FC5A MicroSmart Pentra User's Manual

Descriptions for FC5A-SIF4 expansion RS485 communication module and system program version 220 have been added.

# What's new in WindLDR Version 6.11

## <Application software>

### 1. Performance Improvement

The overall performance of WindLDR has been improved. File opening, program conversion, and start up of WindLDR can be completed faster than the previous version of WindLDR.

### 2. Bugs Fixed

The following problems have been fixed:

- When a program is uploaded, rung comments are not restored if there are 6 rung comments in the program.
- When Tag Names are assigned to device addresses, the replacement for these device addresses on Tag Editor doesn't function.
- The user programs in which invalid communication speed is configured with WindCFG can be downloaded to FC5A PLCs, and those PLCs do not respond to WindLDR afterward.

# WindLDR Version 6.10

## <Application software>

### 1. HG2G Pass-Through Support (Serial)

Support for HG2G Pass-Through has been added to WindLDR. Pass-Through Tool was required for WindLDR to communicate with PLCs via the connected HG2G. However, WindLDR 6.1 can communicate with the PLCs without using Pass-Through Tool.

### 2. Project Recovery

WindLDR 6.1 can recover the projects if WindLDR is terminated unexpectedly and the changes made to the projects were not saved.

When the project backup is enabled in WindLDR Option dialog, WindLDR backs up the project periodically. If WindLDR is not terminated properly, the list of projects can be recovered is displayed when WindLDR is launched next time. You can choose one of the listed projects and start editing from the point that it was backed up.

### 3. Zoom

A function to adjust the zoom ratio of the ladder editor has been added to WindLDR. Zoom ratio can be adjusted between 25% and 200%. The zoom ratio can be changed with Zoom slider on the right corner of the status bar. It can also be changed on Zoom dialog box. This function allows you to see and monitor more lines of the program in the screen.

### 4. Tag Editor Improvements

The following 2 improvements have been introduced.

- When WindLDR is launched from WindCFG, Tag Editor can be opened at both WindCFG and WindLDR.
- An option to hide Tag Name column in Tag Editor has been added. This option is available in Ladder Preference menu in WindLDR Options dialog.

### 5. Date & Time Option

An option to change the format of Data and Time has been added. The format can be changed in General menu in WindLDR Options dialog.

### 6. Bugs Fixed

The following problems have been fixed:

- When downloading or uploading the program, WindLDR cannot disable the password of the connected PLC if the PLC type is FC5A-D16RX1 or FC5A-D32X3.
- Texts written in languages other than English, German, Spanish, Chinese, and Japanese cannot be read and displayed properly on WindLDR when ladder programs (\*.ldr) created with WindLDR prior

than version 6 are read.

- The ladder programs (\*.ldr) created with WindLDR version 4.7 or prior cannot be opened if the ladder programs contain RXD, CDISP, and MACRO instructions.
- Values are not monitored on Batch Monitor when ASCII(W) or ASCII(D) is selected as the monitor type.
- The ladder diagrams containing LC instructions (LC=, LC<>, LC<, LC>, LC<=, and LC>=) are corrupted when the programs are uploaded from the PLC.
- When Variable (Data Register) is configured in S1 of TXD or RXD instructions, the range of used data register are not calculated correctly.
- When you replace devices of instructions in the selected range, the instructions may not be searched.
- While WindLDR is in Simulation mode, the clock data stored in D8008 to D8014 are not updated.
- While WindLDR is in simulation mode, the input condition to LCAL instruction is not restored after the corresponding subroutine of LCAL is executed.

# Improved/Fixed Problem WindLDR Version 6.01

## <Application software>

### 1. File

The following problems were fixed.

- WindLDR sometimes shows an error message when started.
- Ladder program files (\*.ldr) created with WindLDR version 4.0 through 4.7 cannot be opened.
- When the PLC type is FC4A, WindLDR projects cannot be opened if the following steps are taken.
  - Insert RUNA or STPA instructions.
  - Download the program to a PLC and upload the program from the PLC.
  - Save the program with any name and open the saved program.

### 2. Edit

The following problems were fixed.

- When the data type of NDSRC instruction is Float (F), constant values cannot be assigned to S3 of NDSRC.
- When the PLC type is changed from OpenNet to FC5A, S2 of SUM instructions becomes empty.
- When Cross Reference information for CDISP instruction is displayed, the number of device addresses occupied by D1 is always 9 regardless of the settings of S1.
- If Advanced AT + PID action is configured for PIDST instruction and AT Set Point is out of the valid range, a user program execution error occurs on FC5A when the corresponding PID instructions are executed.

### 3. Configuration

The following problems were fixed.

- Search Web Server Units does not function.
- 38,400 bps cannot be selected for RS485 port of OpenNet Controller.

### 4. Online

The following problems were fixed.

- All bookmarks set on the program are cleared when all modifications made to the program during Online Editing mode are canceled.

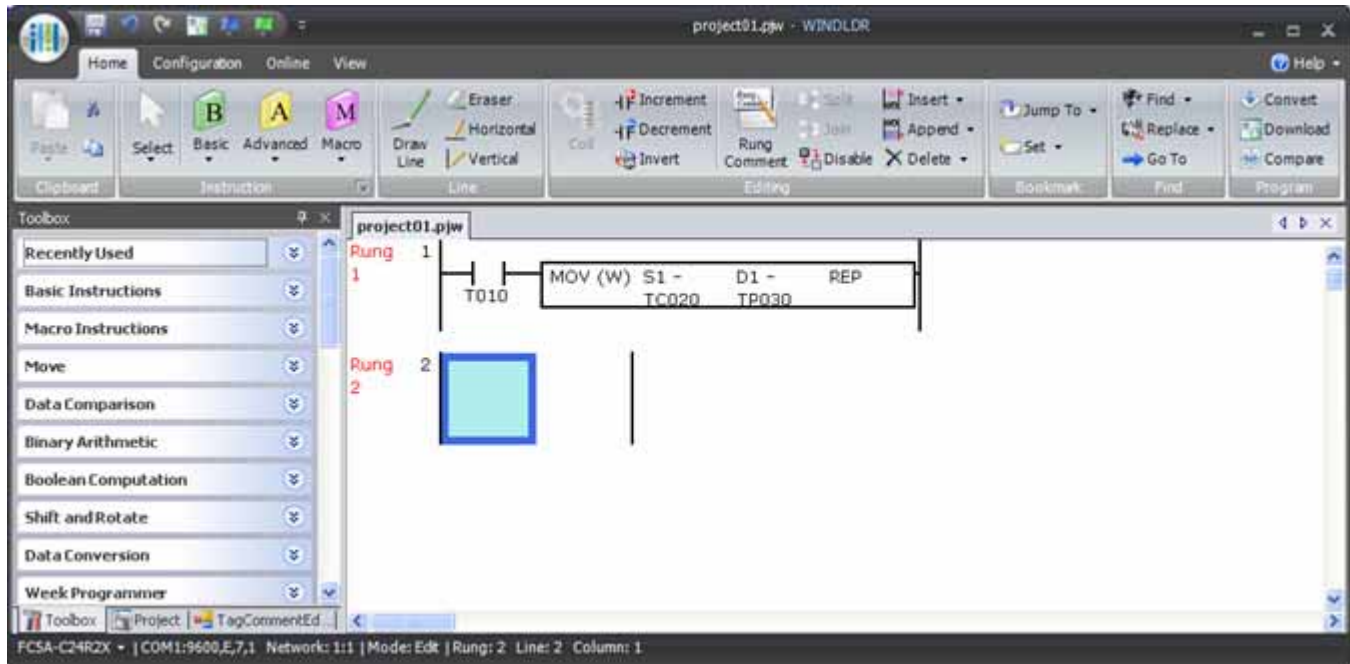
If Download Comment option is selected in Download dialog, the comment data is always generated even when no comment data to download exist.

# What's new in WindLDR version 6.00

The following functions are introduced to WindLDR version 6.00.

## 1. Changed New GUI (Graphics User Interface)

- Pull-down menu and Tool bars were changed to Ribbon Control and allows you to access frequently used commands with minimum steps.



## 2. Advanced Interactivity for WindCFG and WindO/I-NV2

- WindCFG (New System Configuration Software) provides the advanced interactivity between WindLDR and WindO/I-NV2. Those two softwares can share the PLC device address information such as tag name and comments each other automatically.

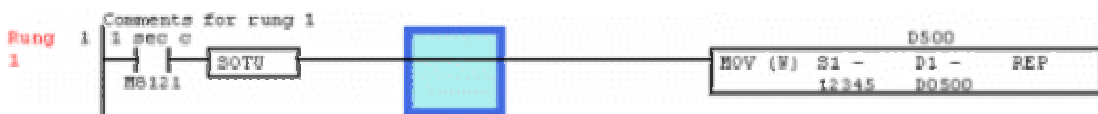
## 3. Sharing cross reference info with WindO/I-NV2

- The cross reference information is also shared by both projects. If you open the Cross Reference dialog and input a PLC device, you can see the list of instructions using the device in the WindLDR project and the list of parts using the device in the WindO/I-NV2 project.

## 4. Color preferences for the ladder editor

- The colors of the ladder editor can be customized in Ladder Preference of WindLDR Options dialog. You can alter the color of variety of items of the ladder editor, such as the background color, line color, text color, and cursor color.

Default color:

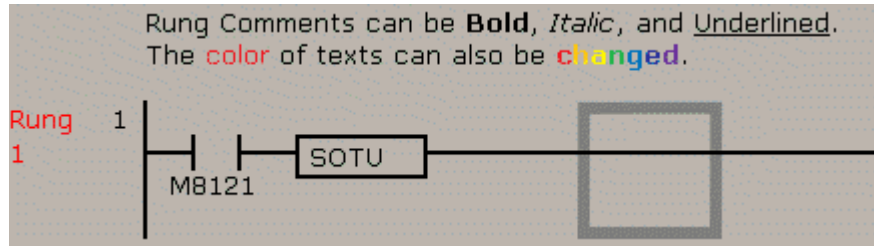


Customization Example:



## 5. Rich Rung comment format

- You can now format rung comments in Rung Comment dialog. Rung comment texts can be bolded, italicized, and underlined, and the color of the texts can also be changed. Rung comment format can be downloaded to the PLCs so that the format is restored when the program is uploaded from the PLCs.



## 6. New file format

- WindLDR version 6 introduces a new file format for the WindLDR projects. The new format consists of only 1 file containing all project data, such as the ladder diagram, symbol table, bookmarks, cover page, and custom monitors, which are contained in individual files with WindLDR version 5. In WindLDR version 6, all projects are saved with the new format (.pjw).

## 7. Toolbox

- Toolbox window lists all available instructions of the selected PLC. You can input instructions to the ladder editor with Drag & Drop operation. Inputted instructions are added to the Recently Used folder in Toolbox so that you can access to the frequently used instructions easily.

## 8. Device editing dialog

- Device editing dialog is introduced to WindLDR. You can make a small change to a device in the instructions using the dialog. Press the Space key on the keyboard to open the dialog box.

