

## Welcome to the CLICK PLC Programming Software

Version 2.51 Nov 1, 2019

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This document describes some of the changes in this release of the CLICK PLC Programming Software. It also includes known issues as well as updated information for the documentation provided with the software. The information in this file and in the Help file is more up-to-date than the information in the printed software installation and hardware user manuals.

### Contents

1. Welcome
2. Getting Started
3. What's New?
4. Known Issues
5. Documentation and Help File Changes
6. Known Problems and Conditions
7. Uninstalling the CLICK PLC Programming Software
8. Technical Support Procedures and Contact Information

### Part 1: Welcome

AutomationDirect.com would like to thank you for using the CLICK PLC Programming Software. We have included many powerful and exciting features in the software; however, we know that our customers sometimes have great ideas for features. Please feel free to give us input on the CLICK PLC product line and you may even request features that you feel would improve the software for your application.

### Part 2: Getting Started

See the CLICK PLC Programming Software Installation Manual for help with installing the software on your PC. Also see the CLICK PLC Hardware User Manual. The chapter 1 of the Hardware User Manual features a step-by-step instruction for the first time CLICK PLC users.

### Part 3: What's New?

Nov 1, 2019 - Version 2.51

#### Improvements

- 1) PID PV filter default was 1, changed to 100
- 2) Nickname Export and Import will now open to the previous folder location
- 3) Zoom setting now saved in PID Monitor
- 4) Added % Hysteresis, PV Upper and Lower Limits for better Autotune calculations

## Fixed Bugs

- 1) PID Configuration Error - "PIDxxx\_ALM\_PV\_DevHiHi" could cause an error even when the alarm was disabled.
- 2) False errors were reported when Windows language settings changed the Decimal Separator of the comma and period characters. The message "... is not a valid floating-point value" was improperly reported.
- 3) CO-1x CPUs, Modbus RTU/TCP, Function Codes 1 and 2, unused Bits of the Response Bytes may contain non-zero values.
- 4) ASCII Send Instruction - Copy and Paste Embedded Addresses above limit causes error.
- 5) EtherNet/IP - Assembly Object (0x04) Class Attribute 2 was corrected.
- 6) CO-1x CPUs Immediate Coil Out had priority over Overrides.
- 7) When the PID loop is configured for Reverse Acting, the Autotuning does not function correctly.

Sept 18, 2019 - Version 2.50

## New Features

- 1) Support 8 PID Control Loops
- 2) The values in all retentive addresses in the PLC can be saved to the project file through the Software Setup window.

## Improvements

### Software

- 5) Software Version is now displayed in the Software Header.
- 6) Cross Reference View now improved to show addresses assigned: Analog I/O, High Speed Inputs, EtherNet/IP, PID.
- 7) The programming software will now correctly prevent assigning invalid IP's to the CPU.

### Firmware

- 1) The Built-in Analog Inputs of Ethernet CPUs would previously provide filtered values for the first several scans.

## Fixed Bugs

### Software

- 8) Nickname Export incorrectly includes all TXT addresses.
- 9) Nickname Import would not import initial values of TXT addresses.

- 10) When a sub-rung was added using <Enter>, then a wire is drawn using <Ctrl+DwnArrow>. After Compile, the new sub-rung was moved below all previous sub-rungs.
- 11) ASCII Send Instruction could be created with more than the allowed 8 Embedded Addresses.
- 12) During Syntax Checking, Rung comments on rungs with no ladder instructions might be deleted.
- 13) Calendar/Clock Setup - the Time of PLC would be displayed incorrectly as "00:XX" instead of 12:XXAM and 12:XXPM.

#### Firmware

- 1) High Speed Counter in Quadrature mode and Counting Modes x1 or x2, would continue counting in the previous direction with loss of A or B input signals.
- 2) Copy Single Instruction, using a Hex Constant in Binary mode actually performed a Value operation.
- 3) Compare Contact operates incorrectly with DD registers and values over 0x01000000.
- 4) A Timer in Retained Mode and a certain combination of Contacts and Branches, the Timer would run even while disabled.
- 5) EtherNet/IP, Initial setting of the Clear Output Data option did not apply correctly.

April 10, 2019 - Version 2.40

#### Fixed Bugs

- 1) The COPY instruction not working correctly in Ethernet CPU's
- 2) Status Monitor in the software not showing the correct state
- 3) Attempting to print to "Microsoft Print to PDF" in the software causes it to crash

#### New Features

- 3) Support EtherNet/IP Adapter Server
- 4) Address types CTD, TD and SD made available for Receive Instruction Slave Address
- 5) Address types CTD, TD and SD made available for Send Instruction Slave Address
- 6) Copy Instruction – Pointers can be now used with C-bits
- 7) Copy Instruction – Pack from Bits (C) to Registers (DS, DH, DD, DF)
- 8) Copy Instruction – Unpack from Registers (DS, DH, DD, DF) to Bits (C)
- 9) Copy Instruction – Pack from Words (DS, DH) to Double-Words (DD, DF)
- 10) Copy Instruction – Unpack from Double-Words (DD, DF) to Words (DS, DH)
- 11) Copy Instruction – When Copying from a Register to TXT, added Binary option.
- 12) Copy Instruction – When Copying from a TXT to Register, added ASCII Code option.

Oct 3, 2018 - Version 2.30

- 1) Ethernet CPU models with DC Inputs now support High Speed Counting and Timing.
- 2) Number of Interrupt Programs increased from 12 to 32.

- 3) Ethernet CPU models now allow Pulse Catch on all Built in Inputs.
- 4) Connect to Ethernet PLC, remember last Network Adapter choice.
- 5) Spelling correction in the CPU Built-in I/O Setup, "Pulse" to "Pulse".
- 6) Write Project into PLC, text change to better explain the download option.
- 7) New toolbar icons for "High Speed Input" and "Software Setup"
- 8) System Configuration, Select a CPU Module, corrected text descriptions of some CPUs.
- 9) Ethernet CPU models' communication timers operate differently than Non-Ethernet CPU's.
- 10) Ethernet CPU models with serial port in ASCII mode will not receive less than 2 characters.
- 11) Ethernet CPU models don't recognize the ON status of discrete inputs during the first scan.
- 12) Math error when using complex order of operations.
- 13) Added Error 108 to catch Interrupt Watchdog Timer Error.
- 14) While offline the software might not identify the CPU model correctly from a CLICK project.
- 15) Ethernet CPU models Ethernet interface might stop due to high network traffic.

Nov 1,2017 - Version 2.20

- Supported the new Ethernet Analog CPU modules. (12-part numbers in total)

Sep 29,2017 - Version 2.11

- Made improvements to overall application security.

Apr 21,2017 - Version 2.10

- Supported Windows 10.
- Supported the re-designed Analog CPU modules (Part #: C0-02\*). The Analog CPU modules with the following serial numbers must use firmware V2.10 or higher.

C0-02DD1-D: 171208001 or later

C0-02DD2-D: 174018001 or later

C0-02DR-D: 173158001 or later

- Improved the firmware update in the Ethernet CPU module. The Ethernet CPU module will keep the IP addresses after completing the firmware update.
- Changed the TXT Addresses to be retentive with all of the CPU modules. An Initial Value can be assigned to each TXT address also.
- Fixed a Math instruction problem. If a constant was assigned to a Math instruction instead of a formula, the Math instruction might write a wrong value into the memory address assigned to store the Result.
- Fixed the problem that the CLICK software displayed 'Error (-6): Memory erase error' during the project download in some cases.
- Fixed the problem that the CLICK PLC didn't execute interrupt programs at all after editing the interrupt setup in some cases.

Dec 3, 2015 - Version 2.00

- Supported the new Ethernet Basic and Standard CPU modules. (8-part numbers in total) - Supported the bumpless RUN time edit with the new Ethernet CPU modules.
- Supported the date and time change without using the CLICK software. (See the help topic CL194 'How to Change Date and Time without using CLICK Programming Software' for details.)
- Added the View I/O MODBUS Addresses button to the System Configuration window. By clicking this button, the new I/O MODBUS Addresses window is opened, and you can check the MODBUS addresses assigned to the discrete and analog I/O.
- Modified the Connect to PLC window to support the Ethernet connection.
- Modified the Receive and Send instructions to support the built-in Ethernet port (Port 1) on the new Ethernet CPU modules.
- Modified the CLICK Project Loader to support the new Ethernet CPU modules.
- From Ver. 2.00, each version of the CLICK Programming Software will be installed in a new folder. This means you can keep different versions of the CLICK Programming Software on a PC.

Jun 12, 2013 - Version 1.40

- Supported new analog I/O modules.
- Supported new discrete combo I/O modules.
- Supported new System Monitor window.
- Improved the System Configuration window to display the DF addresses assigned to analog I/O points.
- Fixed the problem that only 6 paper sizes were available in the Print window.

Nov/02/2011 - Version 1.33

- This version includes new CPU firmware V1.33. It fixed a bug that Analog CPU modules read a wrong analog input value occasionally. The CPU firmware V1.30 and V1.31 had this bug.

Aug 23, 2011 - Version 1.32

- Fixed the problem that the CLICK Programming Software tried to include old firmware V1.30 into the CLICK Loader file instead of the correct firmware V1.31 when the CLICK Loader file was exported.

Jul 6, 2011 - Version 1.31

- This version includes new CPU firmware V1.31 that fixed some major bugs found in firmware V1.30.

May 6, 2011 - Version 1.30

- Improved the Send instruction (ASCII) by supporting the NULL code as an embedded ASCII character.

- Modified the Receive/Send instructions and their setup windows no longer display the setup parameters that are not supported by the selected protocol.
- Fixed the problem that unnecessary warning messages were displayed even if the analog I/O setup was correct.

Dec 16, 2010 - Version 1.21

- Improved Find, now supports searching by Instruction type.
- Improved Address Picker, now opens at address used in the current instruction.
- Improved Error flag (Port2=SC101, Port3=SC103) now shown in Receive instruction of ASCII mode.
- Fixed the problem that Cross Reference only shows start and end addresses used in Math instruction (SUM operation).
- Fixed the problem that Cross Reference does not show DF addresses assigned to Analog I/O.
- Fixed the problem that Math instruction sometimes does not work correctly with constant values.
- Fixed the problem that CPU Built-in I/O Setup shows unclear error message when deselecting "Continuous Address".

Nov 17, 2010 - Version 1.20

- Supported new Standard CPU modules.
- Supported new 24VAC/DC input modules.
- Improved the Rung Comment feature to support Arabic.
- Fixed the problem that the Print dialog output the PDF file without allowing the user to rename the file and select the save location.

May 13, 2010 - Version 1.12

- When there are three branches in a rung, Coil and/or Box instructions could be energized unexpectedly.
- When two OR circuits were connected to the same vertical line (master line), there was a syntax error. (OR circuit = Two or more Contact instructions are connected in parallel.)
- The syntax error check algorithm was improved to prevent any incorrect ladder programs from downloading into the CLICK PLC.
- The Drum instruction no longer consumes a TD address in the Event Base mode.

Nov 23, 2009 - Version 1.11

- Added the CLICK Project Loader tool. This tool is available from the Start menu. See the CLICK Project Loader User Guide for details. (This is also available from the Start menu.) - Added the Override View.

- Added the Exact Match option to the Address Picker, Cross Reference View and Find windows.
- Included the CLICK Hardware user Manual.
- Improved the communication between the CLICK Programming Software and the CLICK PLC. This improvement would reduce the risk of the software crash that some customers had experienced.
- Changed the icons for the interrupt programs.
- Fixed the problem that the CLICK Programming software opened on the Windows with a European language setup didn't accept the comma as the decimal point.
- Fixed the problem that the Timer instruction was set to retain the current timer value and there were 2 contacts in parallel (OR connection) connected to the enable input of the Timer instruction, the Timer was enabled from the beginning even though the both contacts were off.

May 29,2009 - Version 1.10

- Supported new Analog CPU modules.
- Added the Battery Backup Setup dialog for the Analog CPU modules.
- Added the Calendar/Clock Setup dialog for the Analog CPU modules.
- Added the Com Port 3 Setup dialog for the Analog CPU modules.
- Improved the CPU Built-in I/O Setup dialog to support the Analog CPU modules.
- Added the Text View.
- Added the ASCII data type.
- Supported 2400 and 4800 bps on Com Port 2 and 3.
- Added the new System Data Registers to store the no communication time period on the Com Ports. (SD41, SD51 and SD61).
- Added the two Fill Down buttons to the Drum instruction.
- Improved the Copy instruction (Single Copy mode) to support the Pointer addressing as the Destination parameter.
- Improved the Receive instruction (ASCII mode) to store the length of the received text message.
- Improved the Send instruction (ASCII mode) to embed the ASCII codes and Memory Addresses in the text message.

Oct 15, 2008 - Original Release CLICK PLC Programming Software Version 1.00

#### Part 4: Known Issues

Issue #1. Screen DPI settings: It is recommended that when using CLICK PLC Programming Software, the DPI setting should be one of the followings:

72 dpi (75%)

96 dpi (100%)

120 dpi (125%)

144 dpi (150%)

192 dpi (200%)

Failure to use the correct DPI setting will cause text in a project to display incorrectly.

Issue #2. USB-to-Serial Drivers: It is recommended that you disconnect any USB devices except the mouse and keyboard during installation. Some USB devices can interfere with the installation and uninstallation of the Koyo USB-to-serial driver.

Please contact us with any other issues that you might find via fax at 1-770-886-3199 or e-mail inquiry at <http://support.automationdirect.com/techinquiry.html>

#### Part 5: Documentation and Help File Changes

Please contact us with any corrections, enhancements, or changes that you would like to see in the documentation or help file via fax at 1-770-886-3199 or e-mail inquiry at <http://support.automationdirect.com/techinquiry.html>

#### Part 6: Known Problems and Conditions

If you cannot install the software on your PC, check to make sure that your computer is running a compatible operating system: CLICK PLC Programming Software runs on the following Windows operating systems: Windows Vista(32bit)/ XP Pro/XP Home/2000 with SP4.

Please report any other problems to AutomationDirect via <http://support.automationdirect.com/techinquiry.html> or by calling technical support at 1-770-8444200.

#### Part 7: Uninstalling of CLICK PLC Programming Software

It is very important that before uninstalling the software that you make a backup of any important project or library files.

#### Part 8: Technical Support Procedures and Contact Information Here

are some options if you need technical assistance:

1. You may find the information you need on our web site at <http://support.automationdirect.com/>
2. You can send us an e-mail inquiry at <http://support.automationdirect.com/techinquiry.html>
3. You can fax the information to us at 1-770-886-3199 any time of day.
4. You can access our AutomationDirect Customer Forum at <http://forum.automationdirect.com/>
5. You may also call our Technical Support Team from 9 AM to 6 PM EST Monday through Friday.



Please provide your software version when requesting technical support. The software title bar displays the software version number.

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