

- PLC
- HMI
- SENSOR
- ENCODER
- COUNTER
- INFORMATION

KPP Series

Features

Feature

Koyo PLC Programming Software

- PLC programmer software for personal computers
- Familiar user-interface
- Simple programming
- Three languages (Japanese, English, and Chinese)
- Manualless with full HELP



- Common Subject Matter
- SJ-ETHER/SJ
- DL05/06
- DL205
- D4
- D3
- Programmer
- KPP
- DirectSOFT
- Terminator I/O

Features

Free download from the Web

KPP supports the SJ ETHER, SJ Series, DL05, and DL06 Series, DL205 Series, PZ Series, DL405 and SU Series, and SS Series. This software offers easy programming at no cost.

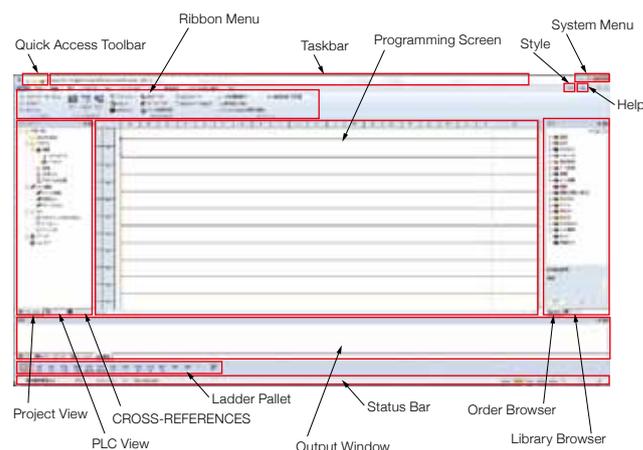
Software Overview

Function Name	Description
Quick Access Toolbar	This is a toolbar that users can customize. You can assign and launch application functions. By default, Create New Project, Open Existing Projects, and Overwrite Projects are displayed. You can also use the menu Display > Quick Toolbar to change the position.
Ribbon Menu	Interface as if a traditional menu and toolbar were integrated. You can use the menu View > Bar Settings > Ribbon Menu to disable submenus.
Taskbar	The project name and the currently enabled programming screen name are displayed.
Programming Screen	This is the screen for programming (ladder stage mnemonic).
Style	Sets the appearance of the application.
System Menu	This button minimizes, maximizes, and closes the screen.
Help	Help about how to operation is displayed.
Project View	Displays a navigator (project) that aggregates various information and functions about the application.
PLC View	Displays a navigator (set) that aggregates various information and functions about the application.
Ladder Pallet	You can enter instructions directly into the selected cell in the ladder view.
Output Window	The program execution results are sorted into tabs (conversion, search, compare, check/diagnosis, communication) for each function, and the results are output.
Status Bar	Displays the status of the PLCs, the coordinates of the program screen, and the ON/OFF status of the special keys on the keyboard.
Order Browser	This is an order browser. Drag and drop the order you want to use and place it in the program. Commands can also be entered directly from the keyboard.
Library Browser	Displays the IBox, customized IBox, and E-program. A library is a reusable program component that can be used by we PLC specific system libraries (IBox) and user-configurable (custom IBox and E-program) interfaces similar to order browsers.
CROSS-REFERENCES	Displays the list of devices used by the program.

Comfortable programming environment

You can use ladder, mnemonic, and stage programming.

You can also use a staged description of the outline of the process and a ladder or mnemonic description of the details. This modifications it possible to change or add operations efficiently.



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Specifications

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- Features
- Specifications**
- Dimensions

List of Supported PLCs

KPPs can program wePLC. Please refer to the table below for the corresponding PLC.

Items	Specifications	
DL05/06	DL05	
	DL06	
DL205	D2-230 (SZ-3)	
	DL-240 (SZ-4)	
	D2-250-1	
	D2-260	
	D2-260-1	
	D2-262	
	D2-263	
D2-265		
PZ	PZ1	
	PZ2	
	PZ3	
DL405/SU	425 (SU-5)	
	430 (SU-5E)	
	440 (SU-6B)	
	450 (SU-5M)	
	454	
	SU-6M	
	SU-6H	
SJ	SJ standard	
	SJ analog	
	SJ sound	
SJ-Ether	SJ-11DD1E-D	
	SJ-11DD2E-D	
	SJ-11DRE-D	
	SJ-12DD1E-D	
	SJ-12DD2E-D	
	SJ-12DRE-D	
	SJ-11DD1EP-D	
	SJ-11DD2EP-D	
	SJ-11DREP-D	
	SJ-12DD1EP-D	
	SJ-12DD2EP-D	
	SJ-12DREP-D	
	SS	TSSC-1

Programming-specification

File

- To compare the programs displayed in the view with programs in the PLC or on the PC
- S-62P format (. Kpg, DirectSOFT text file format (). Txt, the XML format of KPP (. XML and KPP binary formats. Importing kpd files
- Various printing functions as design files
- PLC access control settings

Editing

- Cutting, copying, pasting, deleting, insertion, and combining instructions and connection lines selected on the program screen
- Wiring guide/pen enables drawing/deletion of lines
- Change lock from the programming screen when leaving the seat.

Language changes to comments

- Device usage status display

Display

- Changing the window display
- Program edit screen for ladder, mnemonic, and stage
- Order browser

Programming

- Programming from a library list
- Grammar checks such as coil/timer/counter duplication and END command
- To compare the programs displayed in the view with programs in the PLC or on the PC
- Editing comments on device information, circuits, stage lines, etc.
- Monitor the ON/OFF status of the contact and output of the currently displayed program circuit and the status of the timer/counter elapsed value.

PLC

- Grammar check and I/O diagnostics capability
- Peripheral hardware settings

Tool

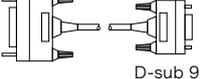
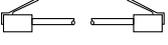
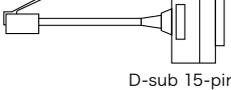
- FL-net configuration tool
- F2-DEVMSTR configuration
- D2-02PM configuration tools
- SJ Speech Conversion Tool

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Serial Connection

List of Components

Classification / Appearance (Reference)	Model Number	Name / Function
<p>KPP</p> 	KPP	Free download from the Web
<p>D-sub 15-pin Connector</p>  <p>D-sub 9-pin Connector</p>	S-30JG-T	Programmer connection cable Between PLC (D-sub 15-pin) ⇔ For DOS/V
<p>Modular 6-pin Connector Plug</p> 	Z-20JP	Programmer connection cable (2 m)
<p>D-sub 9-pin</p> 	S-9CNS1	Conversion connector DOS/V ⇔ For Z-20JP
<p>D-sub 15-pin</p> 	S-15CNP1	Conversion connector D4 series programmer port ⇔ For Z-20JP
<p>High-density D-sub 15-pin</p> 	S-15HCNP1	Conversion connector DL06/D2-250-1/D2-260/PZ3 ⇔ For Z-20JP
<p>D-sub 25-pin</p> 	S-25CNP1	Conversion connector D4 series lower port Host link port ⇔ For Z-20JP
<p>Modular 6-pin Connector (Plug)</p>  <p>D-sub 15-pin Connector (Socket)</p>	S-15CNJ	Conversion connector cable PLC (Modular) ⇔ For S-15JP/S-30JG

Operation Manual

The DirectSOFT operation manual can be downloaded from our website free of charge.

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- DL205
- D4
- D3
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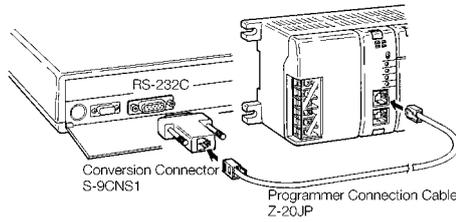
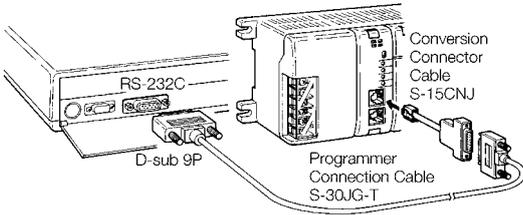
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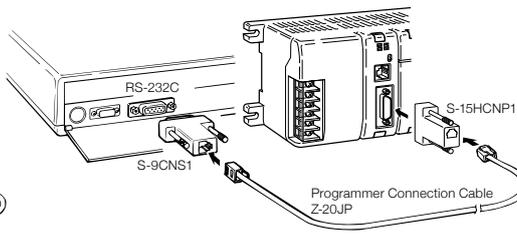
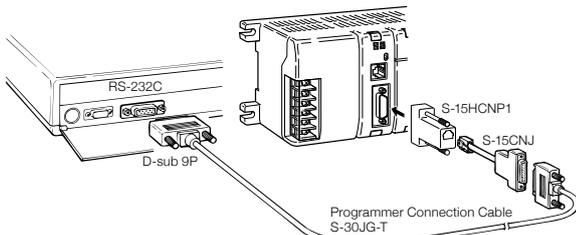
Connection

Connection Between KPP and the SJ-ETHER/SJ/DL05/DL06/DL205/SZ/D4 PLC

Modular

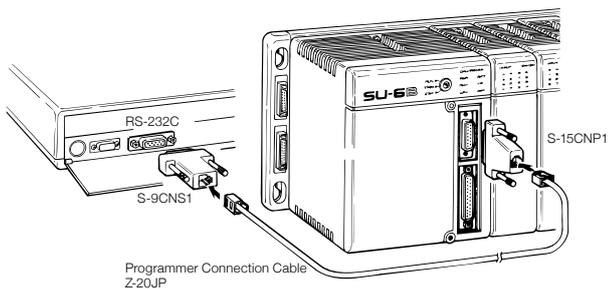
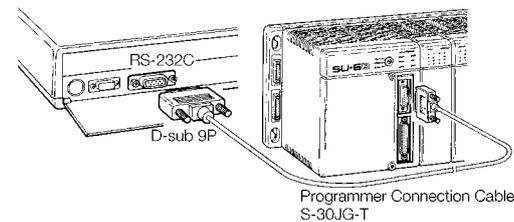


High-density D-sub 15-pin



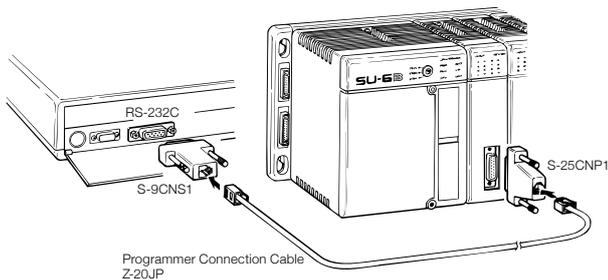
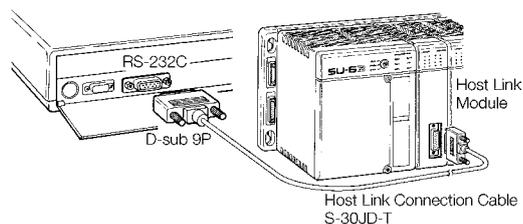
Connection Between DirectSOFT and the D4 Series/SU-6M

Programmer port (D-sub 15P)



Lower port (D-sub 25P) and host link module (D-sub 25P)

* The connection method of the host link is shown below as an example, but the same applies to the lower port.



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List of Cables

Since the CPU is equipped with various kinds of communication ports, correctly check the necessary communication cables.

Select appropriate cables by referring to the table below.

Family	CPU (Or Other Device)	Port	Cable	Supported Protocol				
				Direct Net (CCM2)	K-sequence	Ethernet	MODBUS	
SJ-ETHER/ SJ Series	SJ-ETHER/SJ CPU	Port 1	Z-20JP+S-9CNS1		○			
		Port 2	Z-20JP+S-9CNS1	○	○		○	
	SJ-ETHER CPU	Port 3	Commercial LAN cable 10Base-T			○		
DL05	DL05 (All versions)	Port 1	Z-20JP+S-9CNS1		○			
		Port 2	Z-20JP+S-9CNS1	○	○		○	
	H0-ECOM (Module)	Only 1 port	Commercial LAN cable 10Base-T			○		
DL06	DL06 (All versions)	Port 1	Z-20JP+S-9CNS1		○			
		Port 2	S-9CNS1+Z-20JP+S-15HCNP1	○	○		○	
	H0-ECOM (Module)	Only 1 port	Commercial LAN cable 10Base-T			○		
DL205 Series	D2-230	Only 1 port	Z-20JP+S-9CNS1		○			
	D2-240	Top port	Z-20JP+S-9CNS1		○			
		Bottom port	Z-20JP+S-9CNS1	○	○			
	D2-250-1	Top port	Z-20JP+S-9CNS1		○			
	D2-260, D2-265	Bottom port	S-9CNS1+Z-20JP+S-15HCNP1	○	○		○	
		D2-DCM (Module)	Only 1 port	S-9CNS1+Z-20JP+S-25CNP1 S-30JD-T	○	○		○
	D2-265	Port 3	Commercial LAN cable 10Base-T			○		
	H2-ECOM100 (Module)	Only 1 port	Commercial LAN cable 10Base-T			○		
	D4 Series	D4-430 D4-440	Top port (15-pin)	S-30JG-T		○		
			Bottom port (25-pin)	S-9CNS1+Z-20JP+S-25CNP1 S-30JD-T	○	○		
D4-450 SU-6M		Top port (15-pin)	S-30JG-T		○			
		Bottom port (25-pin)	S-9CNS1+Z-20JP+S-25CNP1 S-30JD-T	○	○		○	
		Modular terminal	Z-20JP+S-9CNS1	○	○			
D4-DCM (Module)		Only 1 port	S-9CNS1+Z-20JP+S-25CNP1 S-30JD-T	○	○		○	
H4-ECOM100 (Module)	Only 1 port	Commercial LAN cable 10Base-T			○			
D3 Series	D3-232-DCU (Module)	Only 1 port	S-9CNS1+Z-20JP+S-25CNP1 S-30JD-T	○	○		○	
		D3-340	Top port	D3-DSCBL-1	○	○		
	Bottom port		D3-DSCBL-1	○	○		○	
	D3-350	Top port	Z-20JP+S-9CNS1	○	○			
		Bottom port	S-9CNS1+Z-20JP+S-25CNP1 S-30JD-T	○	○		○	

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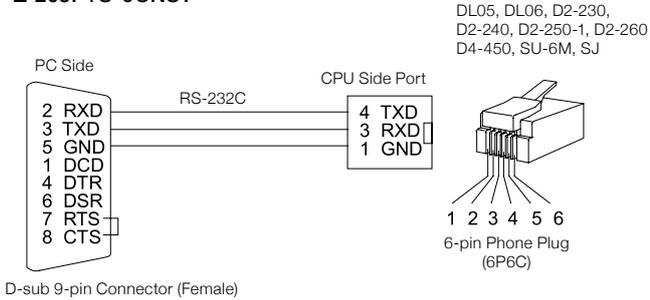
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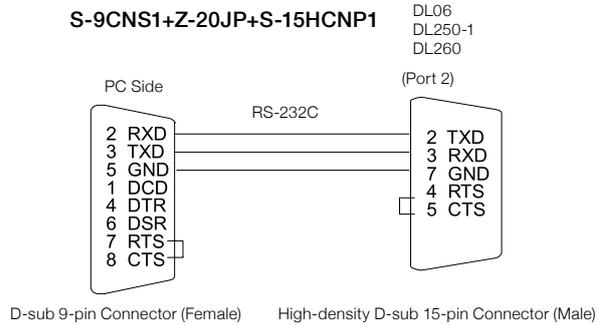
Connection

The pin labels comply with the IBM DTE specifications and the DCE specifications.

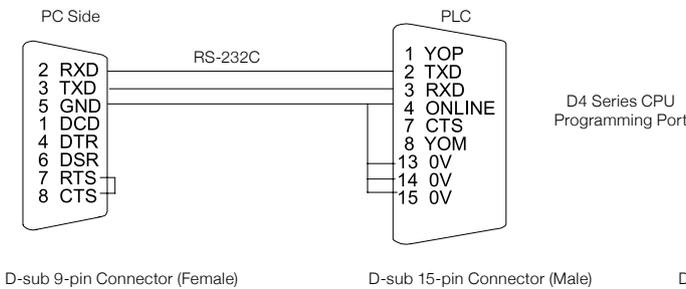
Z-20JP+S-9CNS1



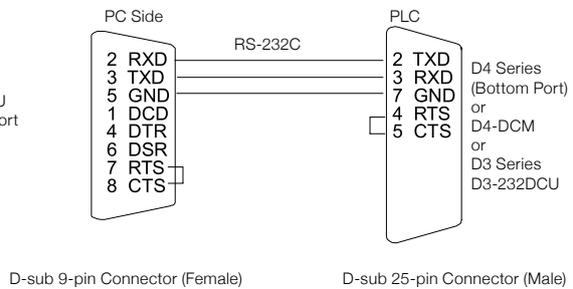
S-9CNS1+Z-20JP+S-15HCNP1



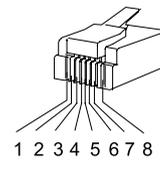
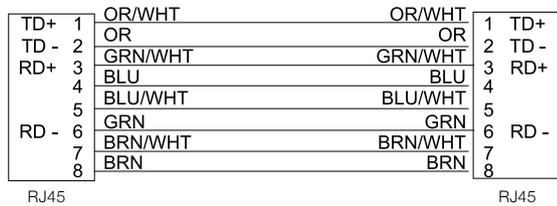
S-9CNS1+Z-20JP+S-15CNP1 or S-30JG-T



S-9CNS1+Z-20JP+S-25CNP1 or S-30JD-T



Straight Cable



All Ethernet and Ecom cables are category 5 UTP cables. The appropriate wiring position of the RJ45 connector is shown in this figure.

Crossover Cable

