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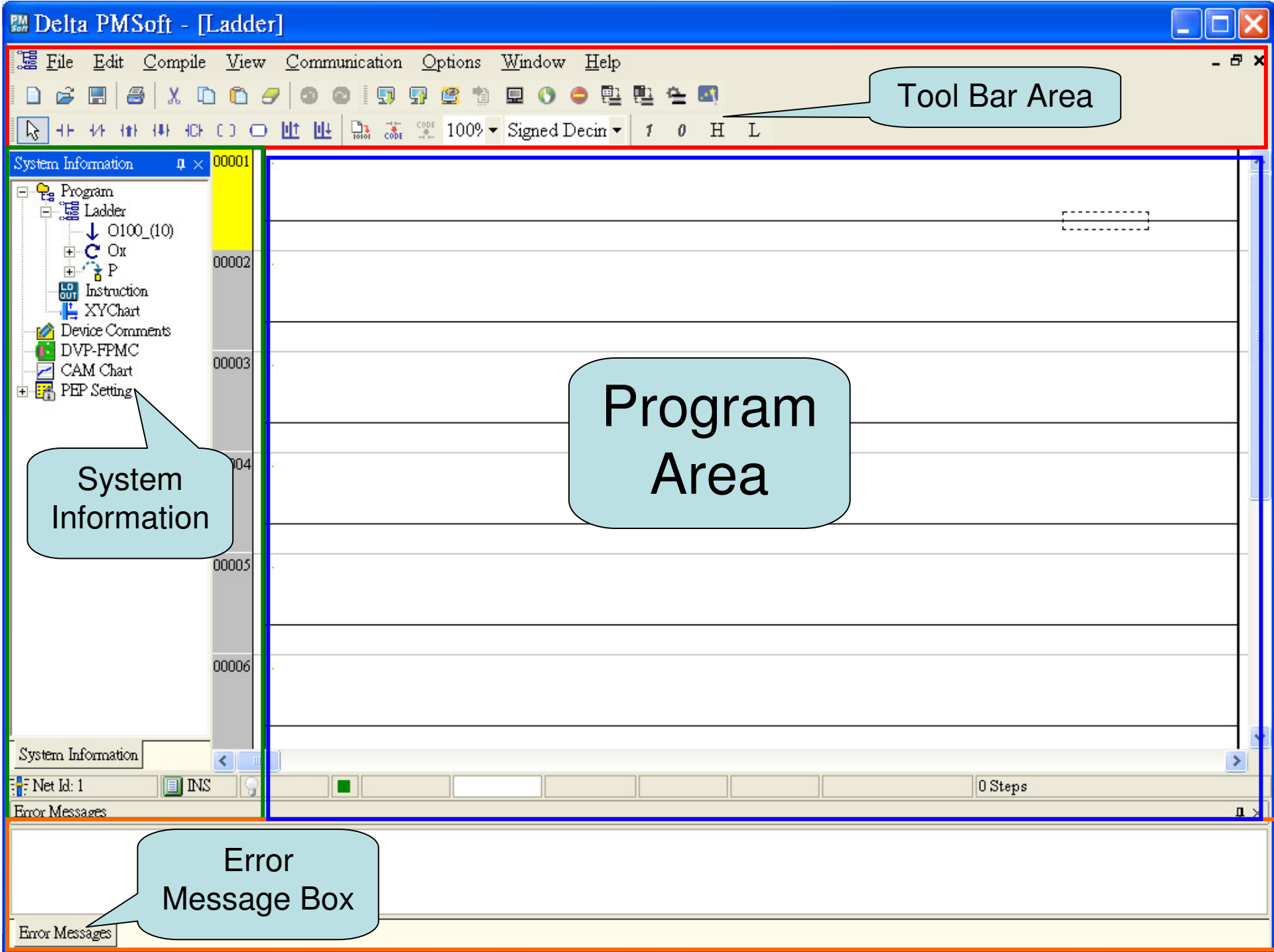
電
子

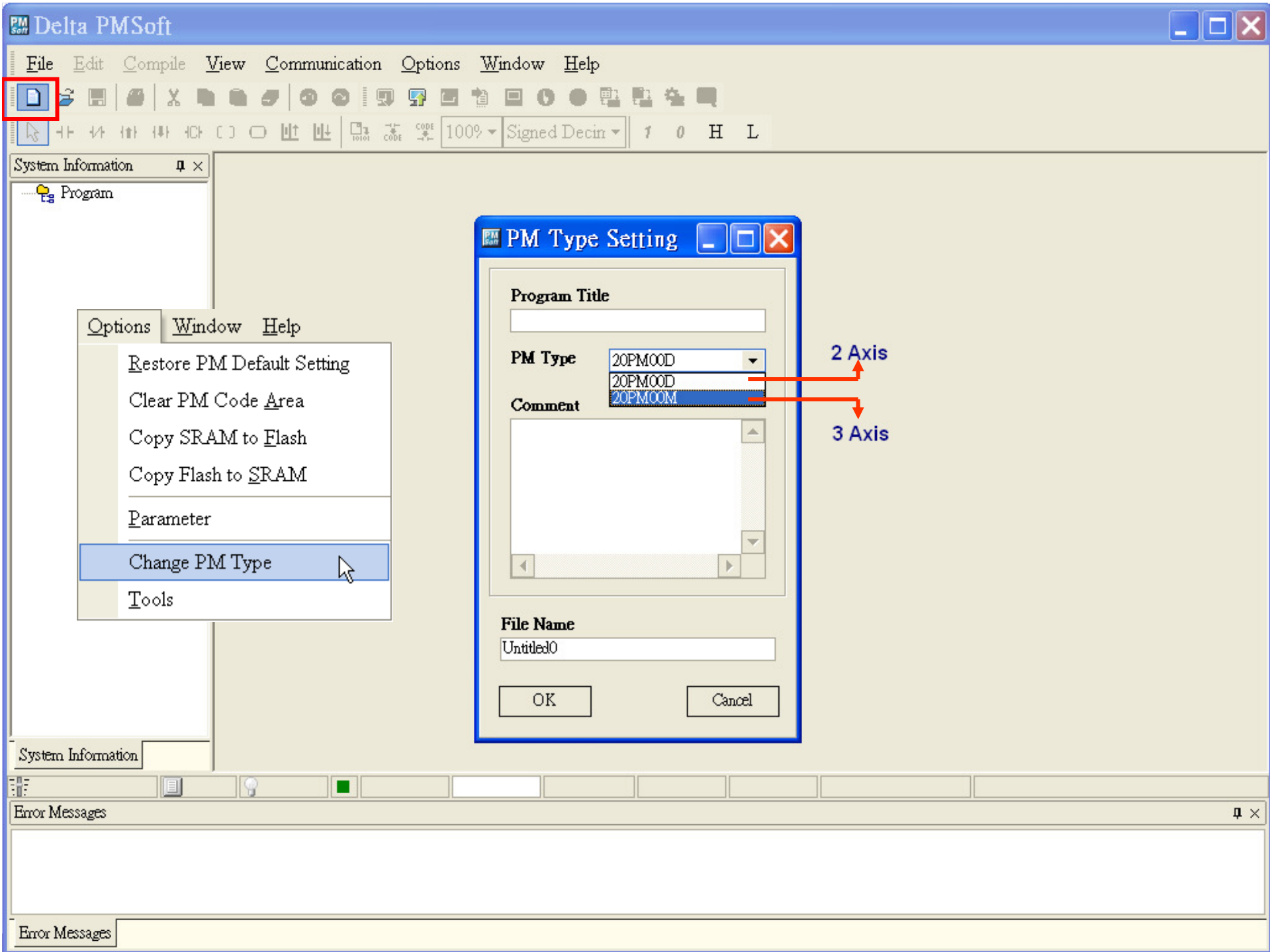
PMSoft Introduction

Agenda

- PMSoft appearance
- Toolbar & useful functions









System Information

- Program
 - Ladder
 - O100_10
 - Ox
 - P
 - Instruction
 - XYChart
 - Device Comments
 - DVP-FPMC
 - CAM Chart
 - PEP Setting

LD OUT Instruction

00001

X/Y Chart

Routing

Ladder - O100

00001	...
00002	...
00003	...
00004	...

Axis Y

View Communication Options

- Instruction
- Ladder
- XYChart
- Add Monitor Table
- Add CAM Chart(M)
- Edit Device Comments(D)
- View System Information
- View Error Message Box
- View Ratio 100%
- Monitoring Radix Signed Decima

System Information

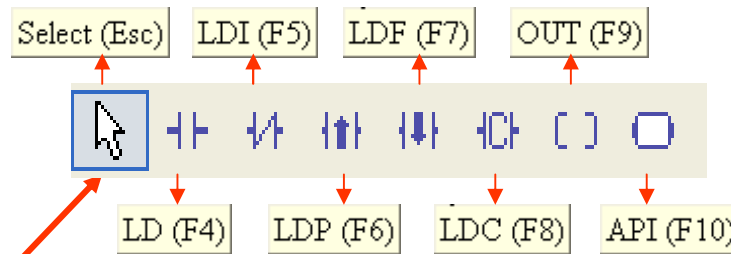
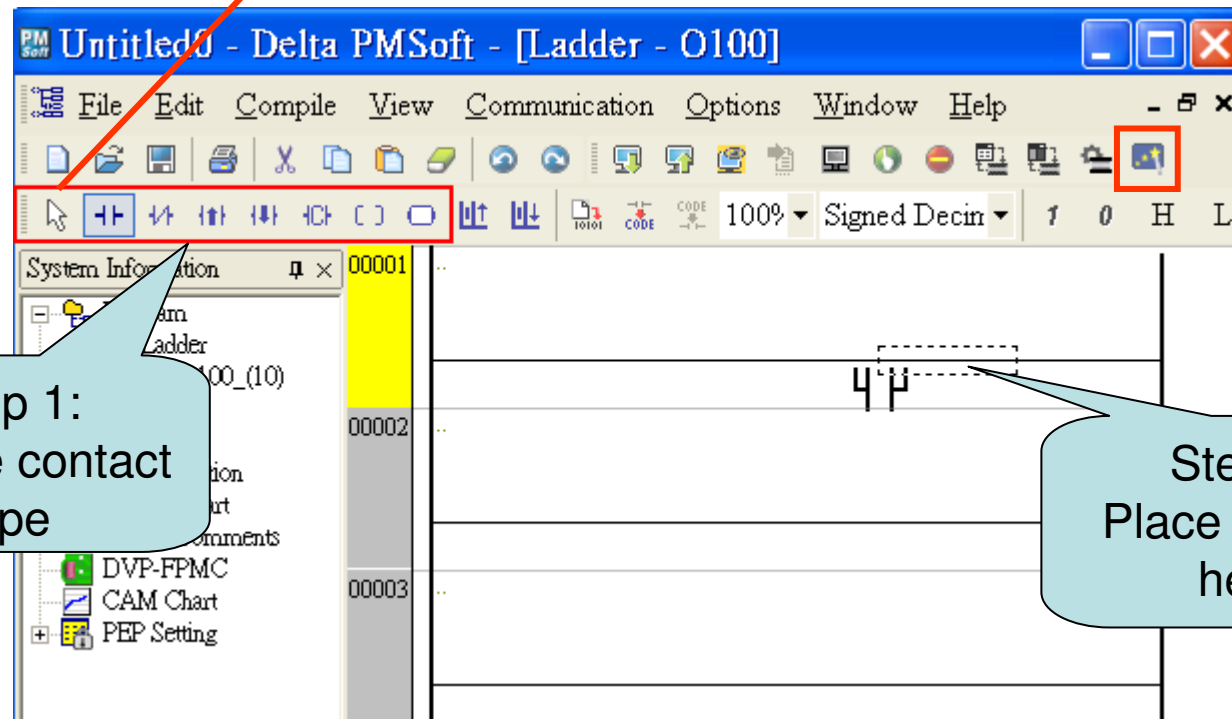
Net Id: 3 INS 0 Steps

Error Messages

Error Messages

Input method 1

- Wizard

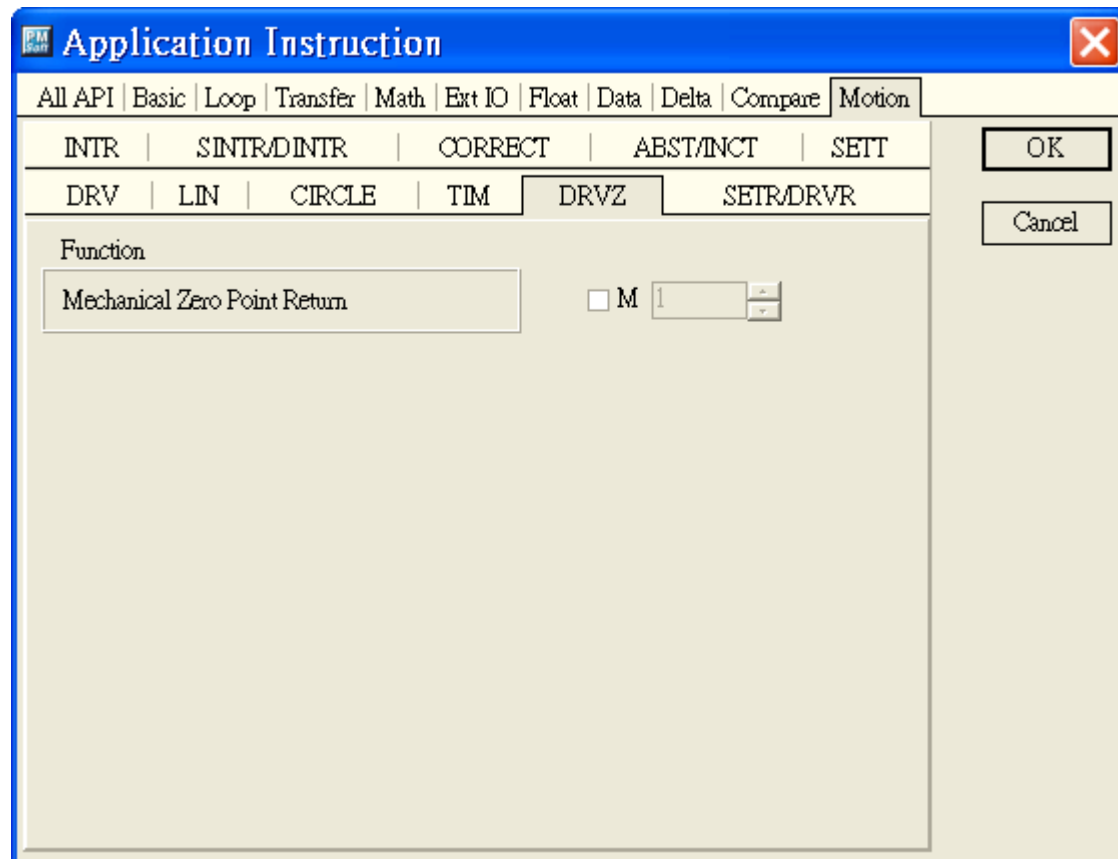
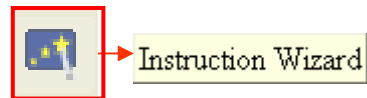



Step 1:
 Choose contact type

Step 2:
 Place contact here

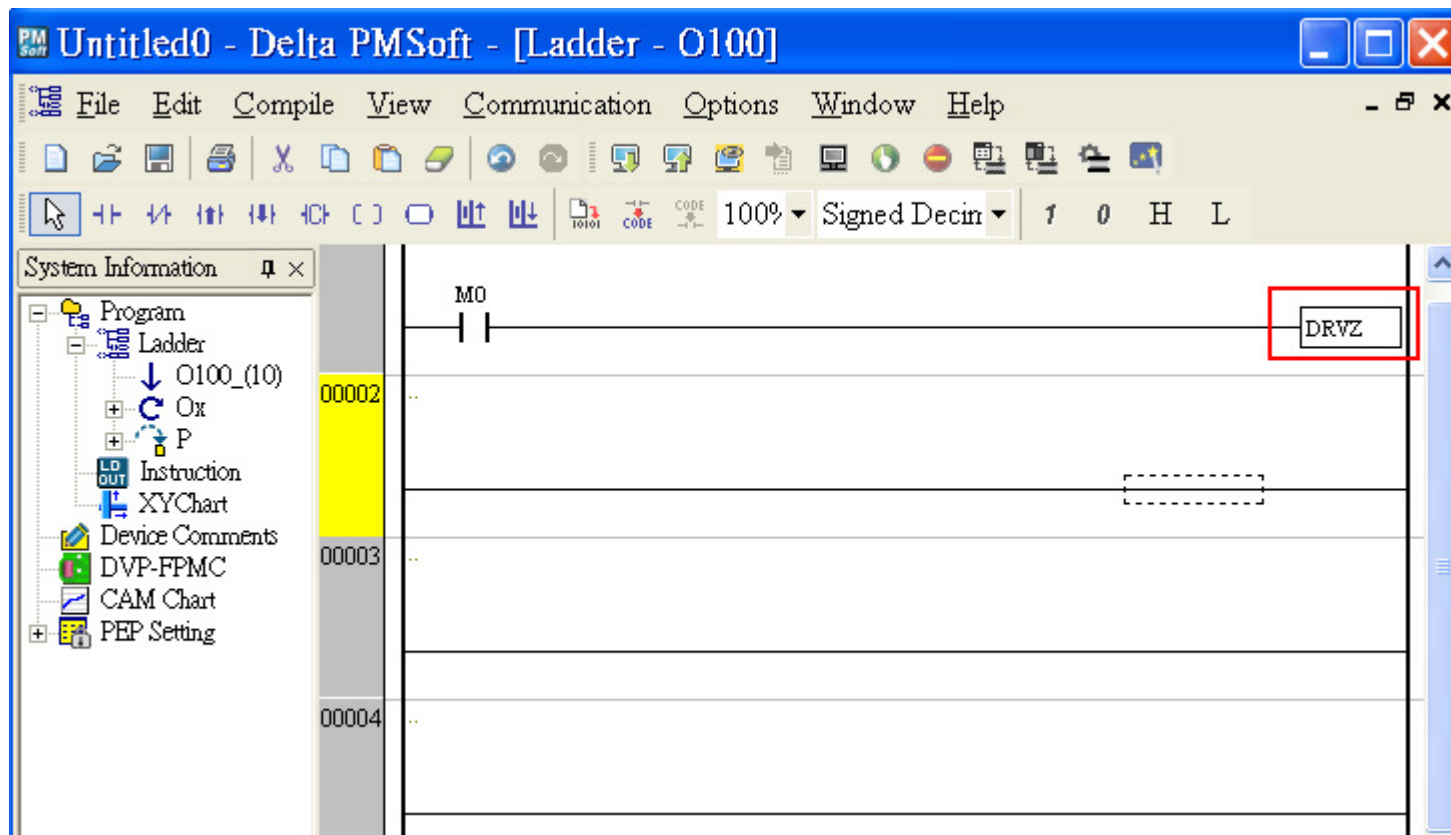
Input method 1

- Wizard



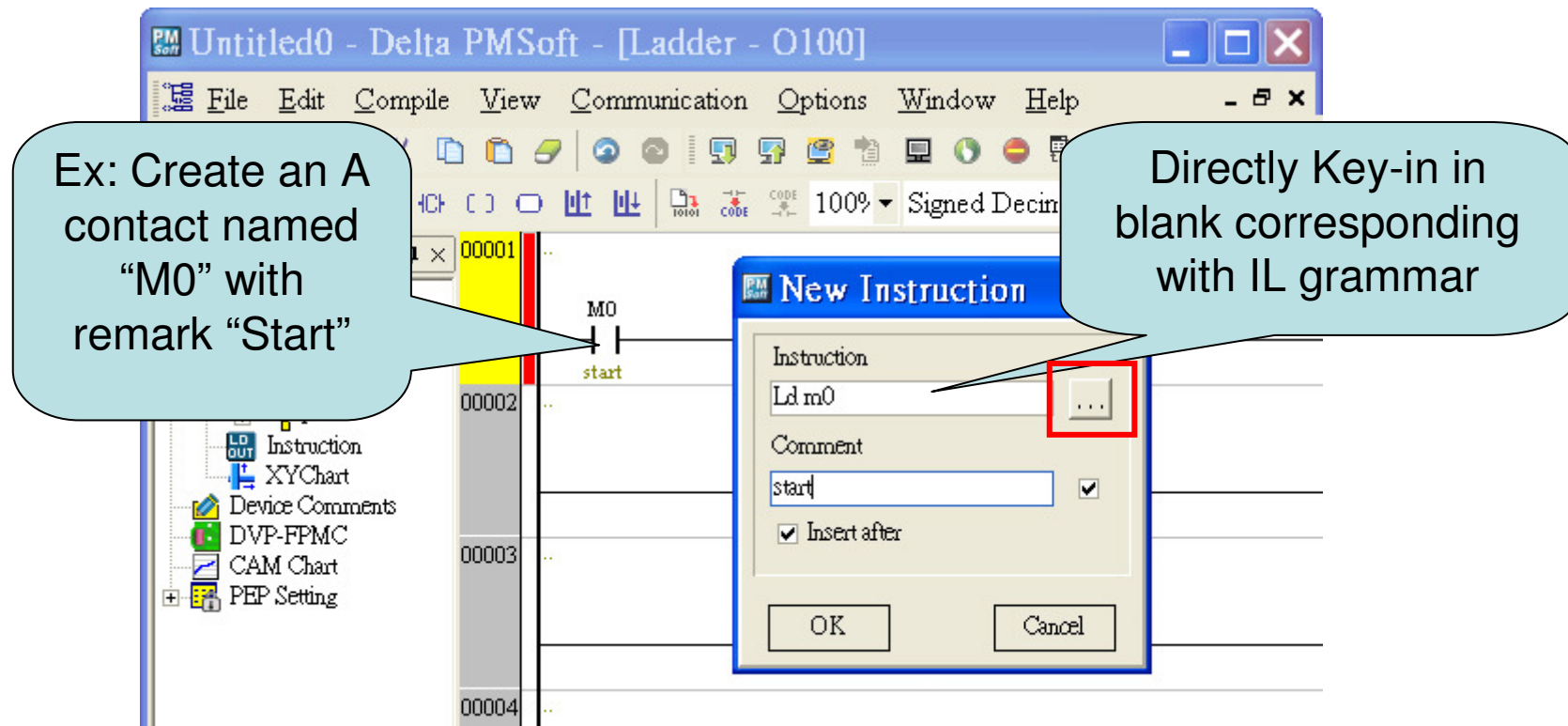
Input method 1

- Wizard  Instruction Wizard



Input method 2

- Direct Key-in

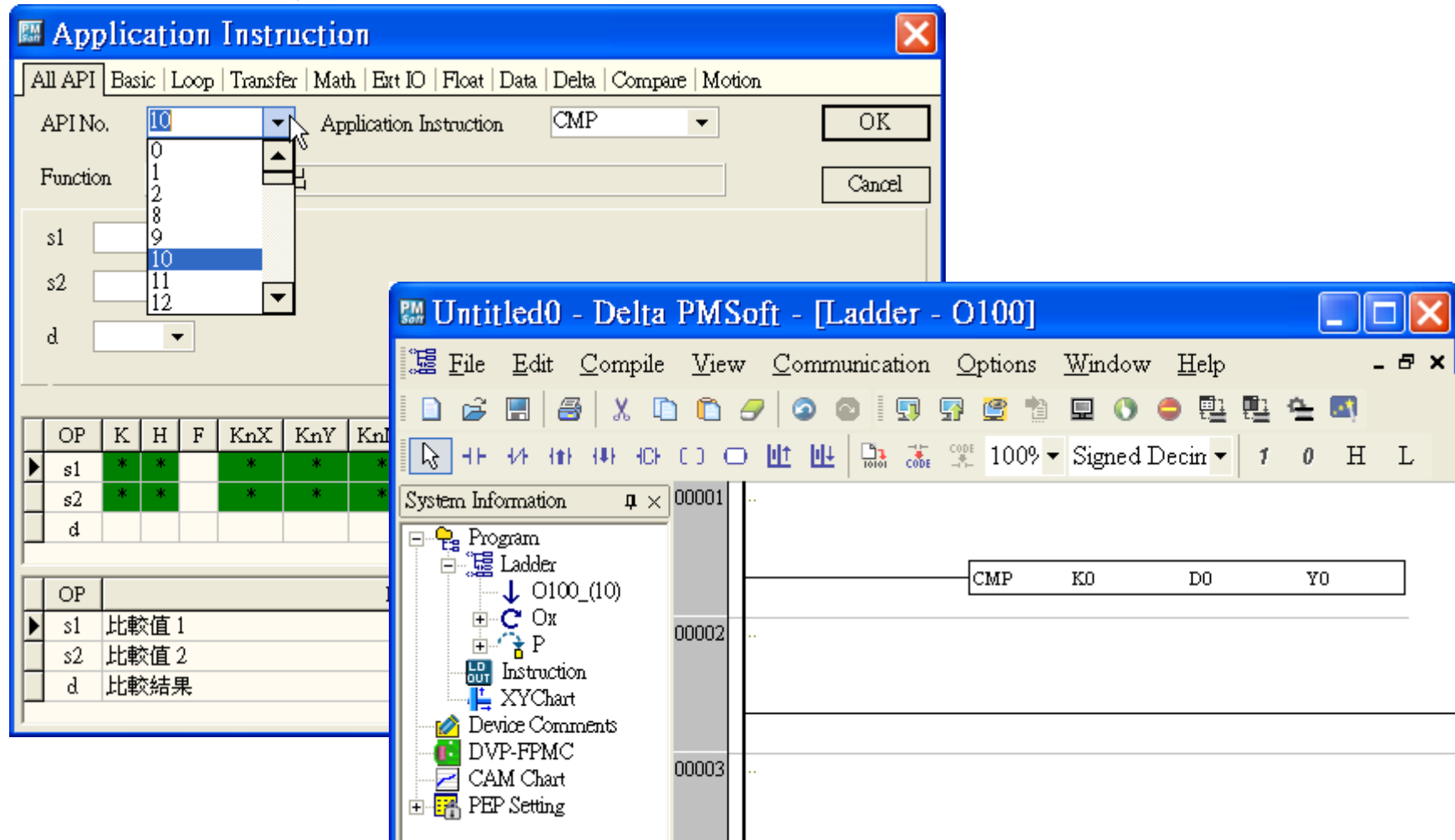


Ex: Create an A contact named "M0" with remark "Start"

Directly Key-in in blank corresponding with IL grammar

Input method 2

- Direct Key-in



The screenshot displays two windows from the Delta PMSoft software. The 'Application Instruction' dialog box is open, showing the 'Compare' (CMP) instruction selected. The 'API No.' is set to 10, and the 'Function' dropdown is open, showing options from 0 to 12. The 's1' and 's2' registers are also visible.

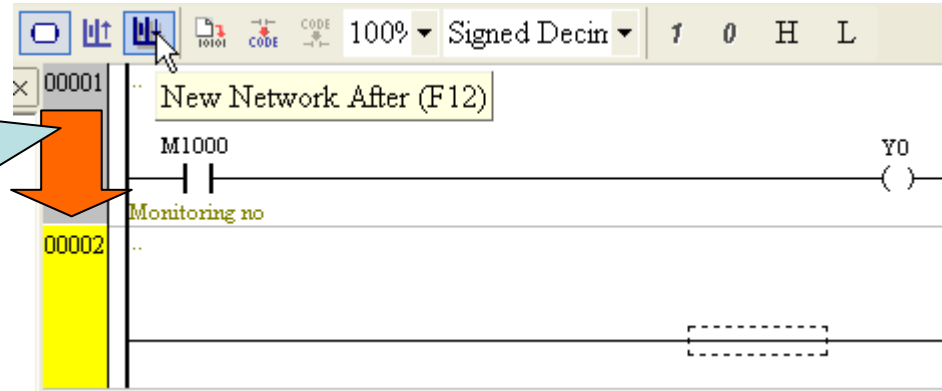
The main window, 'Untitled0 - Delta PMSoft - [Ladder - O100]', shows a ladder logic diagram. The instruction box contains the text 'CMP K0 D0 Y0'. The left sidebar shows the project tree with 'Ladder' expanded to 'O100_(10)'. The bottom status bar shows 'Signed Decim' and '1 0 H L'.

	OP	K	H	F	KnX	KnY	KnI
s1	*	*			*	*	*
s2	*	*			*	*	*
d							

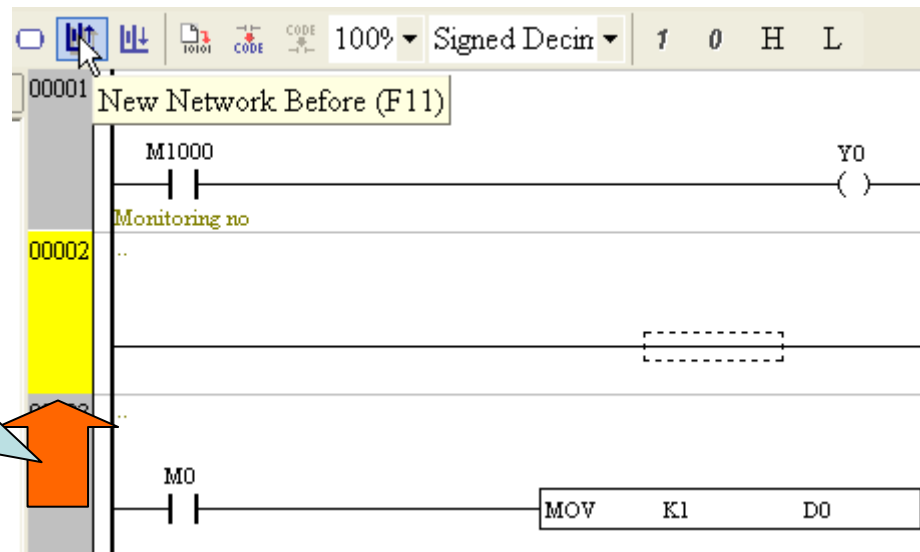
	OP	
s1	比較值 1	
s2	比較值 2	
d	比較結果	

Add new network

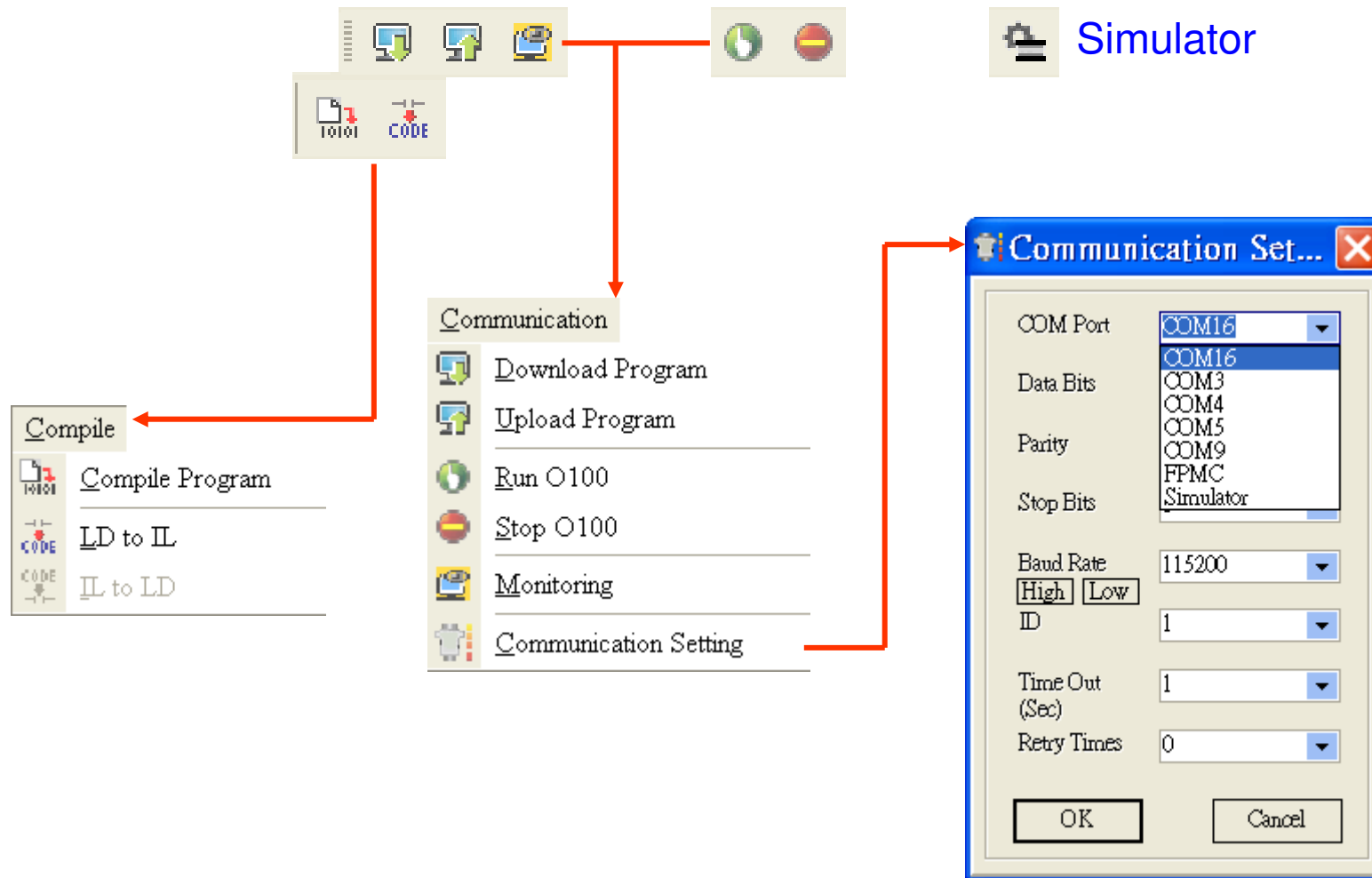
Press
"New Network After"
to create a new
network below



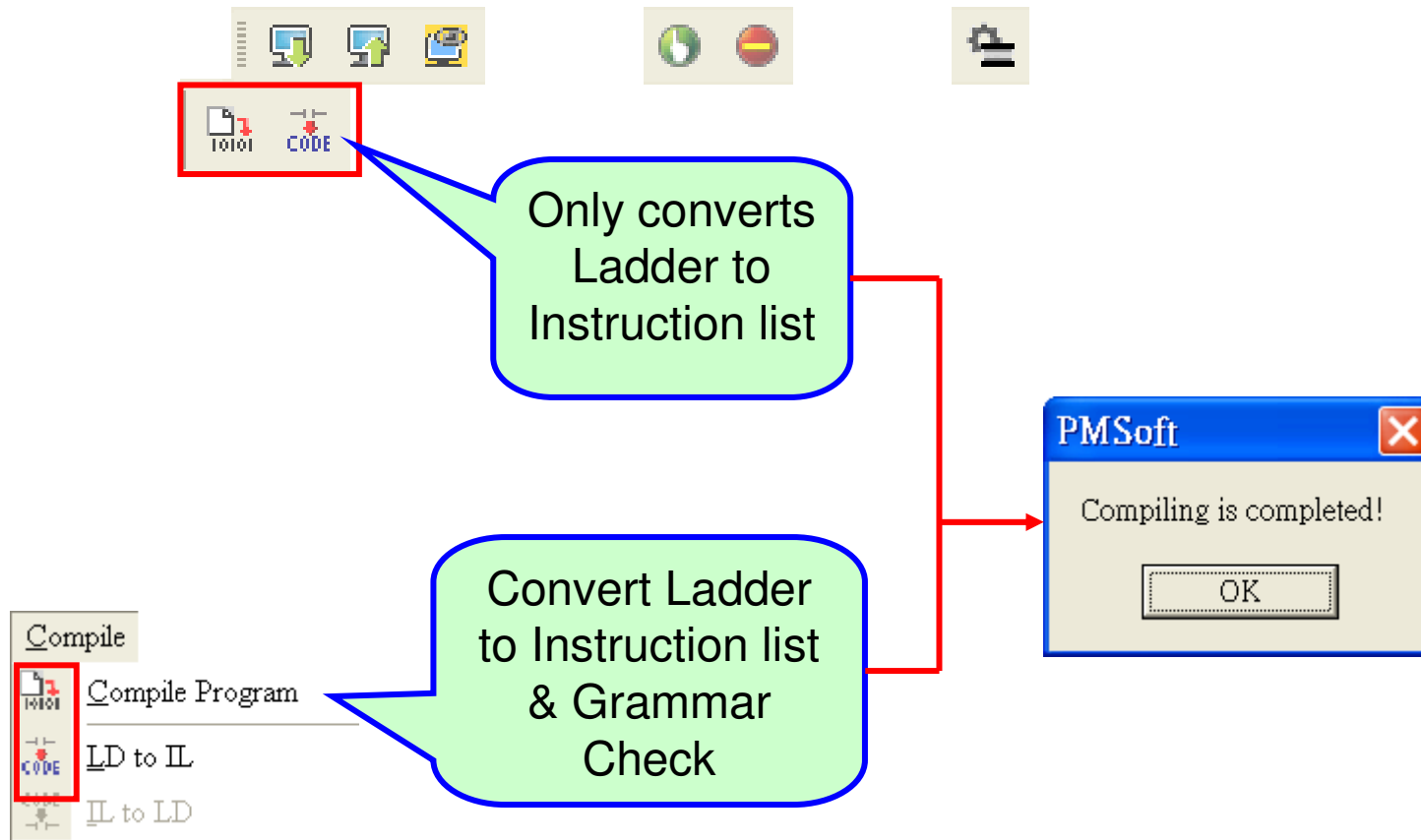
Press
"New Network Before"
to create a new
network above



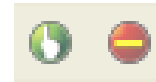
Program execution



Program compile



Upload/Download



Communication

- Download Program
- Upload Program
- Run O100
- Stop O100
- Monitoring
- Communication Setting

Data Transfer

Program Parameter

PEP

OK Cancel

Data Transfer

Program Parameter

Password (4-8) Characters

Confirmation

Apply PEP Setting (4-8) Characters

Confirmation

OK Cancel



Upload/Download

Baud Rate Auto Detect

COM Port	3
Baud Rate	19200
Data Bits	8
Parity	Odd
Stop Bits	2
Retry	0

Cancel

Communication Set...

COM Port	COM16
Data Bits	7
Parity	Even
Stop Bits	1
Baud Rate	115200
High	Low
ID	1
Time Out (Sec)	1
Retry Times	0

OK Cancel

PMSoft

Auto Detect Fail

OK

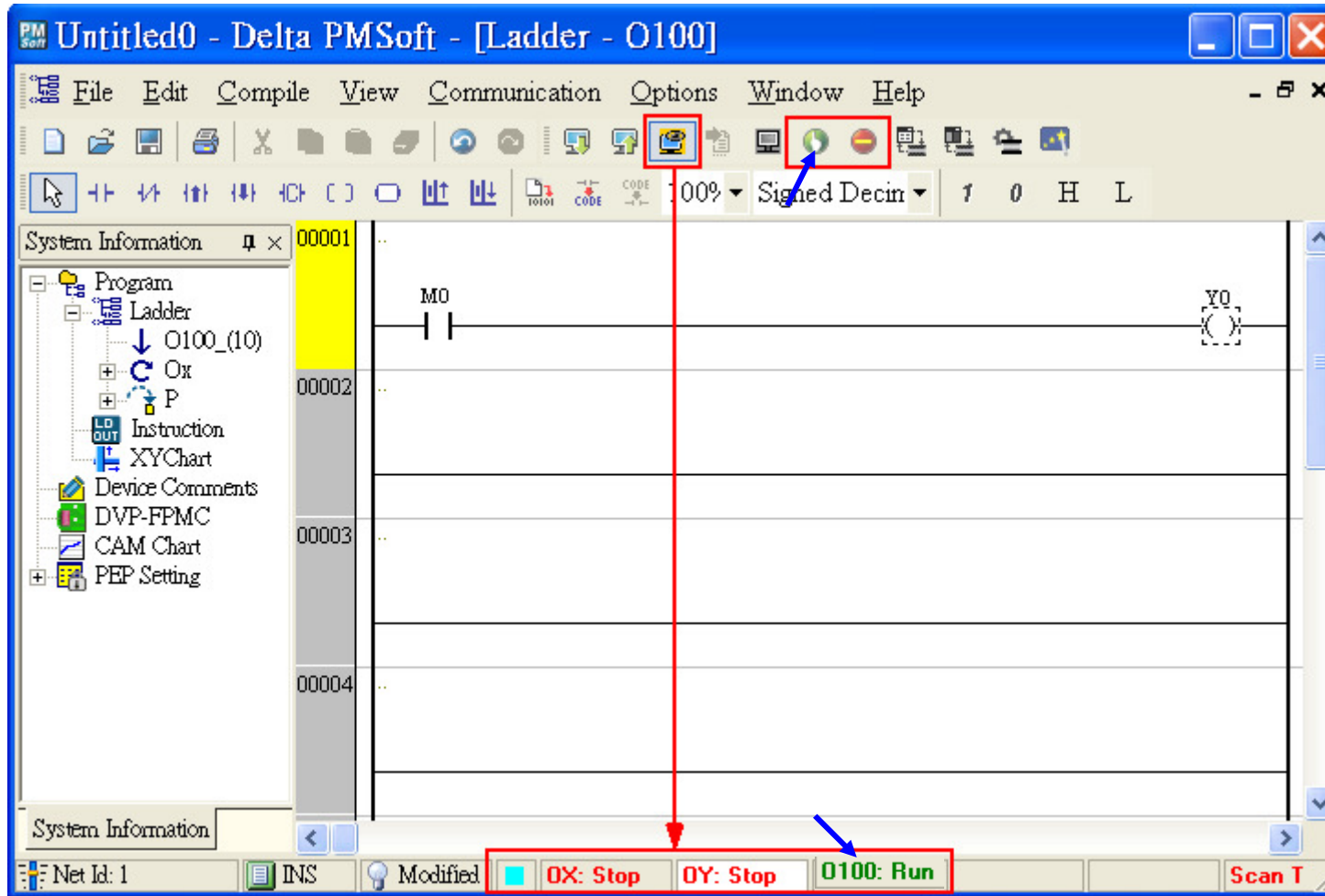
PMSoft

Baud rate setting finished!

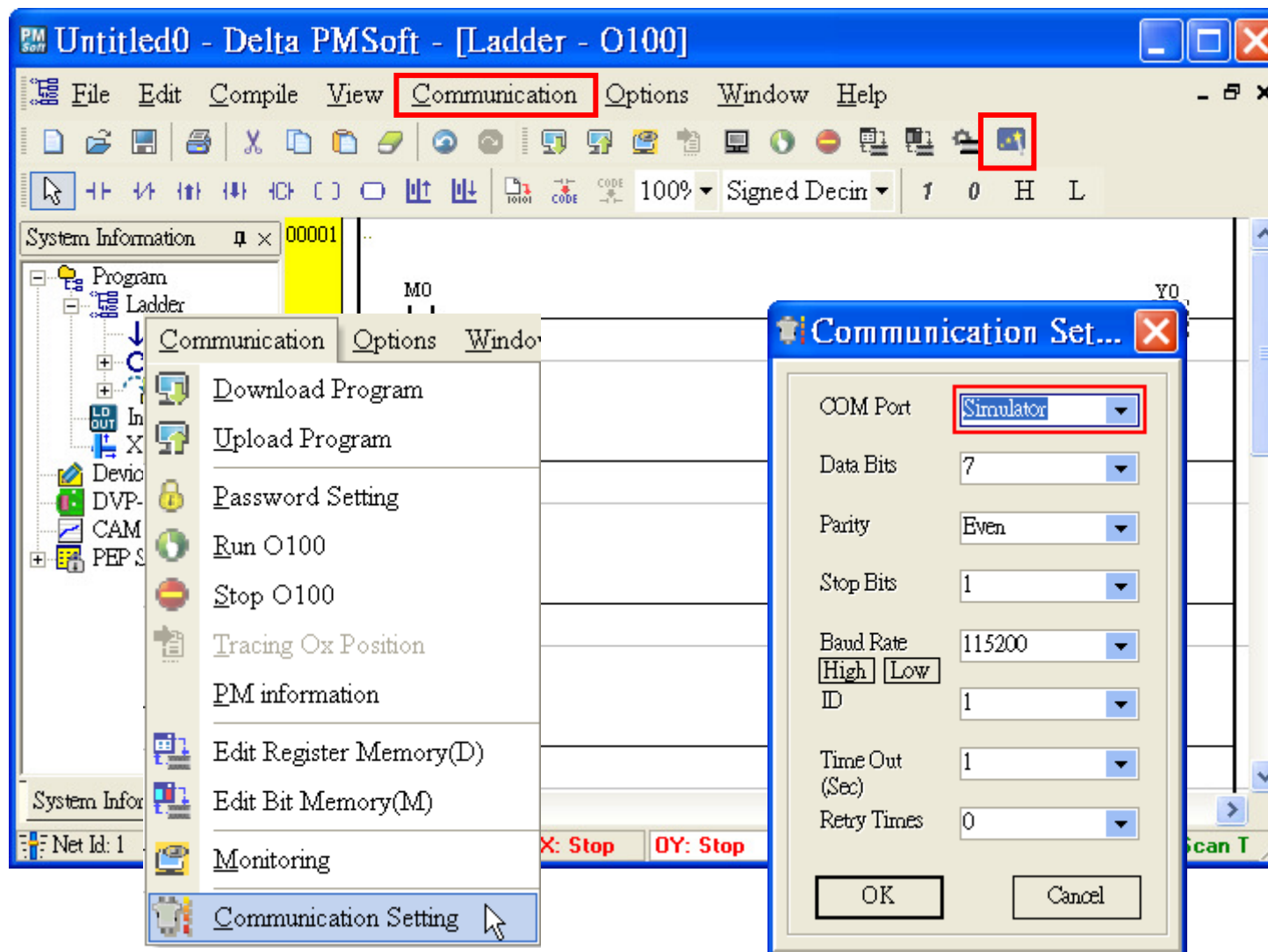
OK



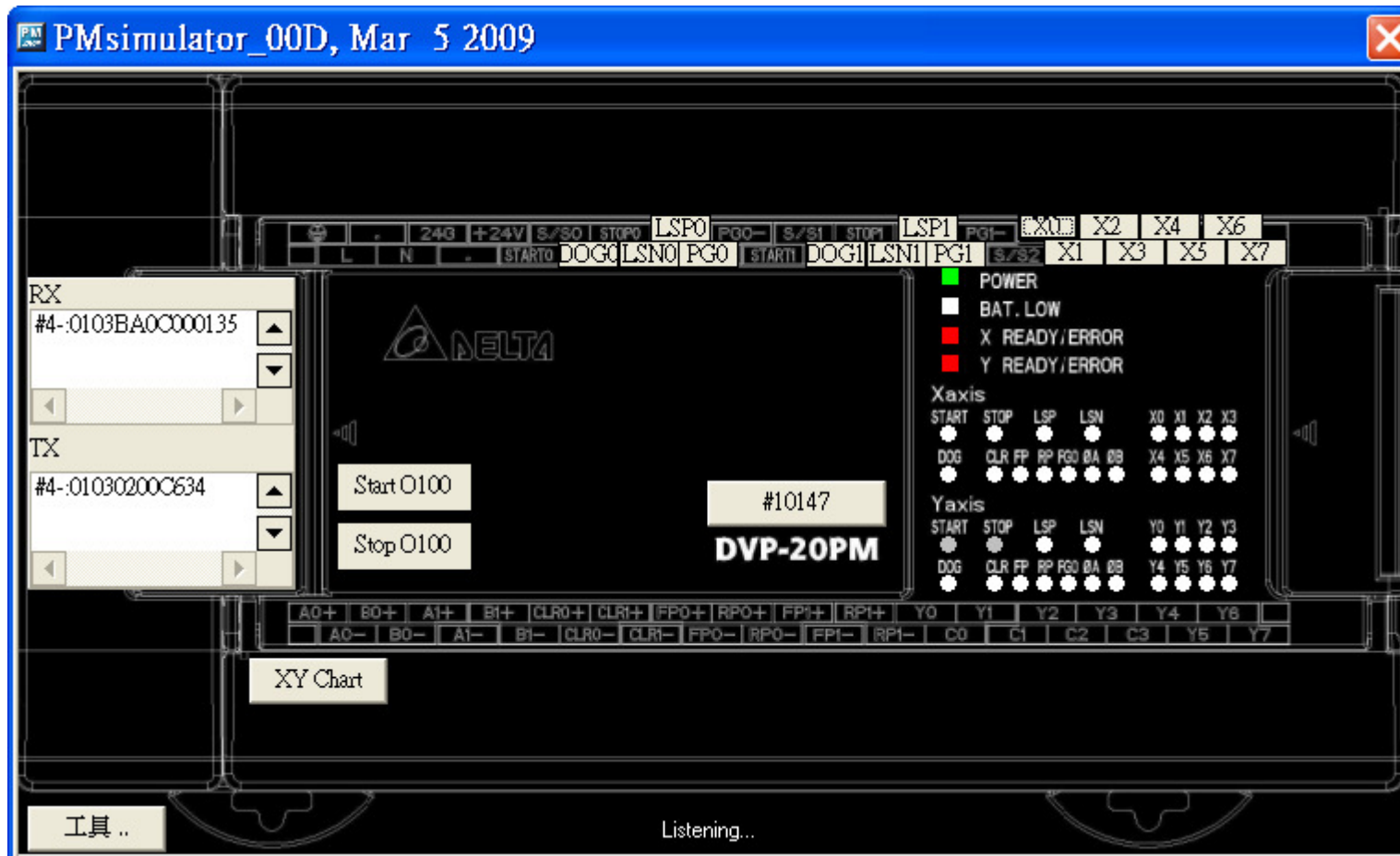
Monitoring & Run/Stop



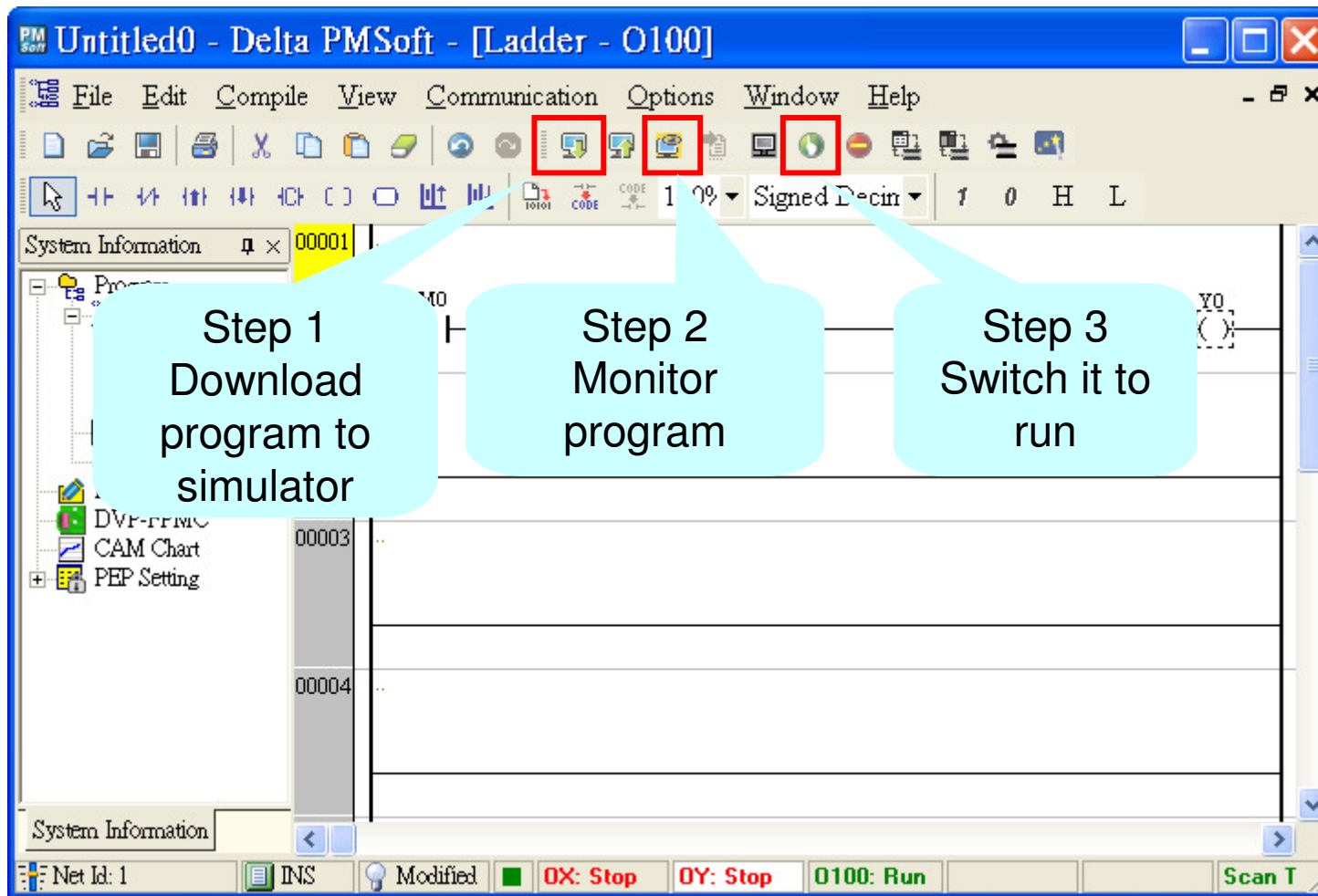
Simulator



Simulator



Simulator



The screenshot shows the Delta PMSoft software interface. The title bar reads "Untitled0 - Delta PMSoft - [Ladder - O100]". The menu bar includes File, Edit, Compile, View, Communication, Options, Window, and Help. The toolbar contains various icons, with three specific icons highlighted by red boxes: a download icon, a monitor icon, and a play icon. Three light blue callout boxes with white text provide instructions:

- Step 1**
Download program to simulator
- Step 2**
Monitor program
- Step 3**
Switch it to run

The main workspace displays a ladder logic diagram with rungs labeled 00001, 00003, and 00004. The status bar at the bottom shows "Net Id: 1", "INS", "Modified", and control indicators for "OX: Stop", "OY: Stop", "O100: Run", and "Scan T".

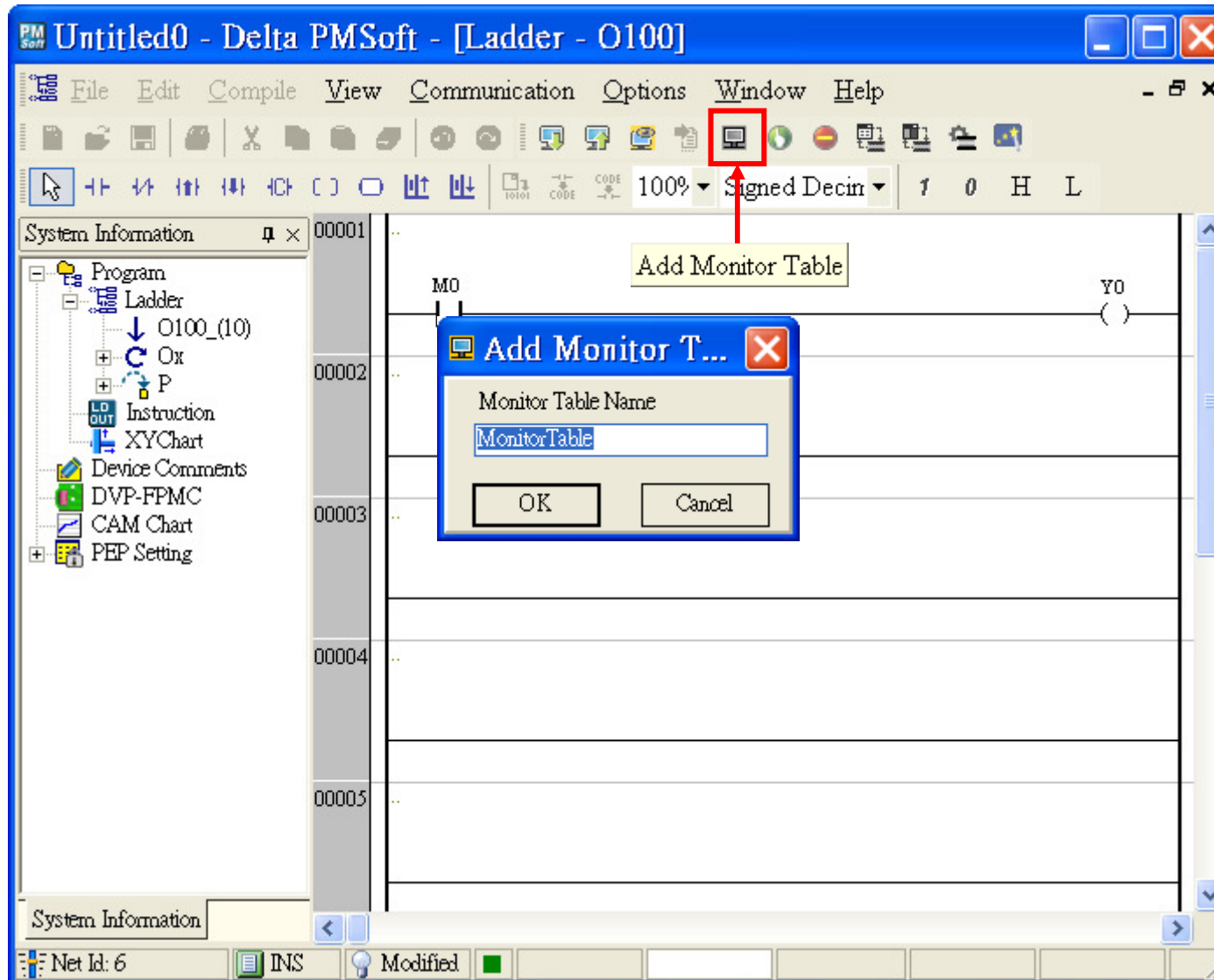


Simulator

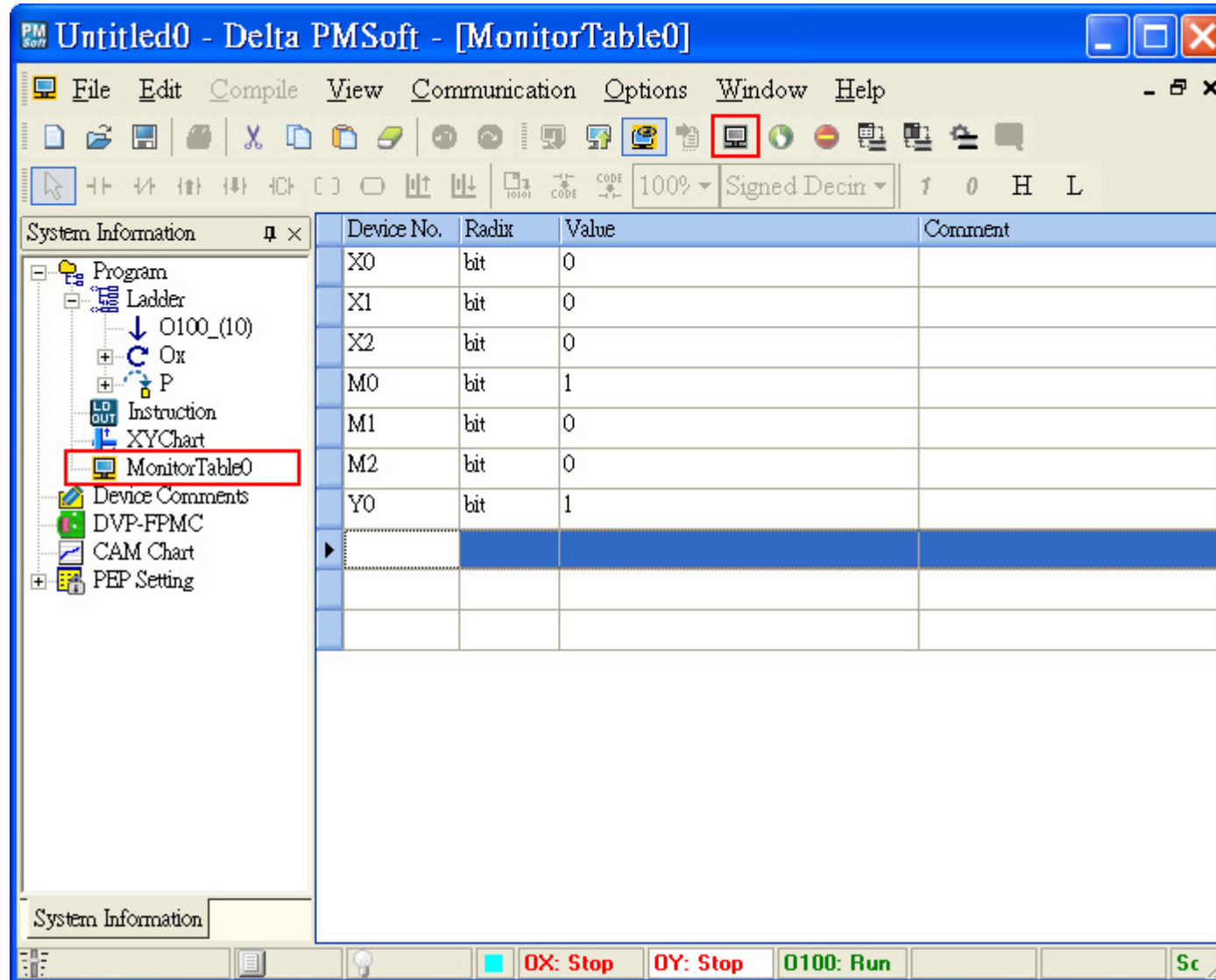
The screenshot shows the Delta PMSoft simulator interface. A context menu is open over a ladder logic diagram. The diagram shows a normally open contact labeled '1' (highlighted with a red box) connected to a coil labeled 'Y0'. The menu items are as follows:

Undo	Ctrl+Z
Redo	Ctrl+Y
Cut	Ctrl+X
Copy	Ctrl+C
Paste	Ctrl+V
Paste Right	Ctrl+R
Paste Down	Ctrl+D
Delete	Del
Select All	Ctrl+A
Find	Ctrl+F
Find Next	F3
Find Previous	Ctrl+F3
Replace	Ctrl+H
Activate Network	
DeActivate Network	
1 Set ON	Num +
0 Set OFF	Num -

Monitor Table



Monitor Table



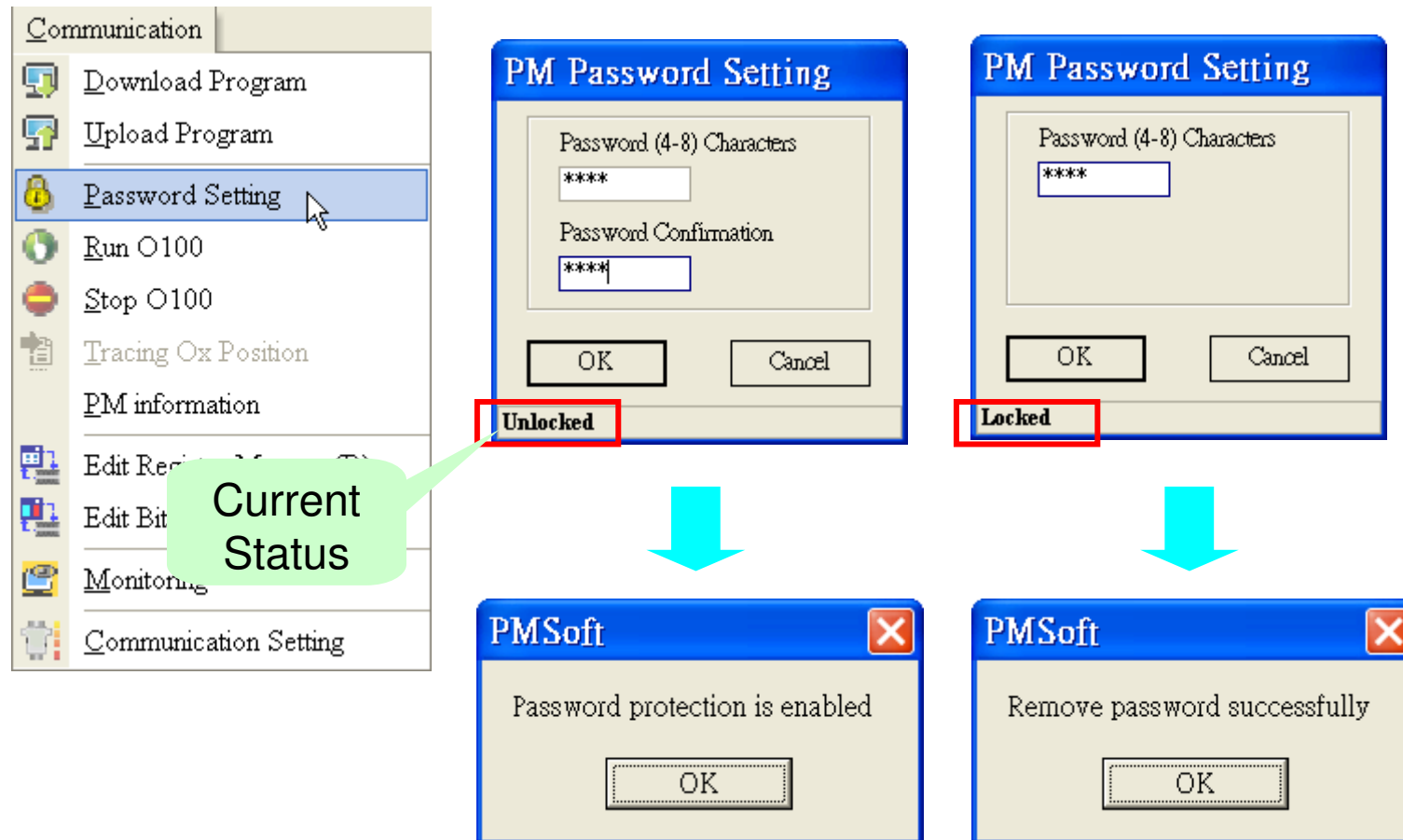
System Information

Device No.	Radix	Value	Comment
X0	bit	0	
X1	bit	0	
X2	bit	0	
M0	bit	1	
M1	bit	0	
M2	bit	0	
Y0	bit	1	

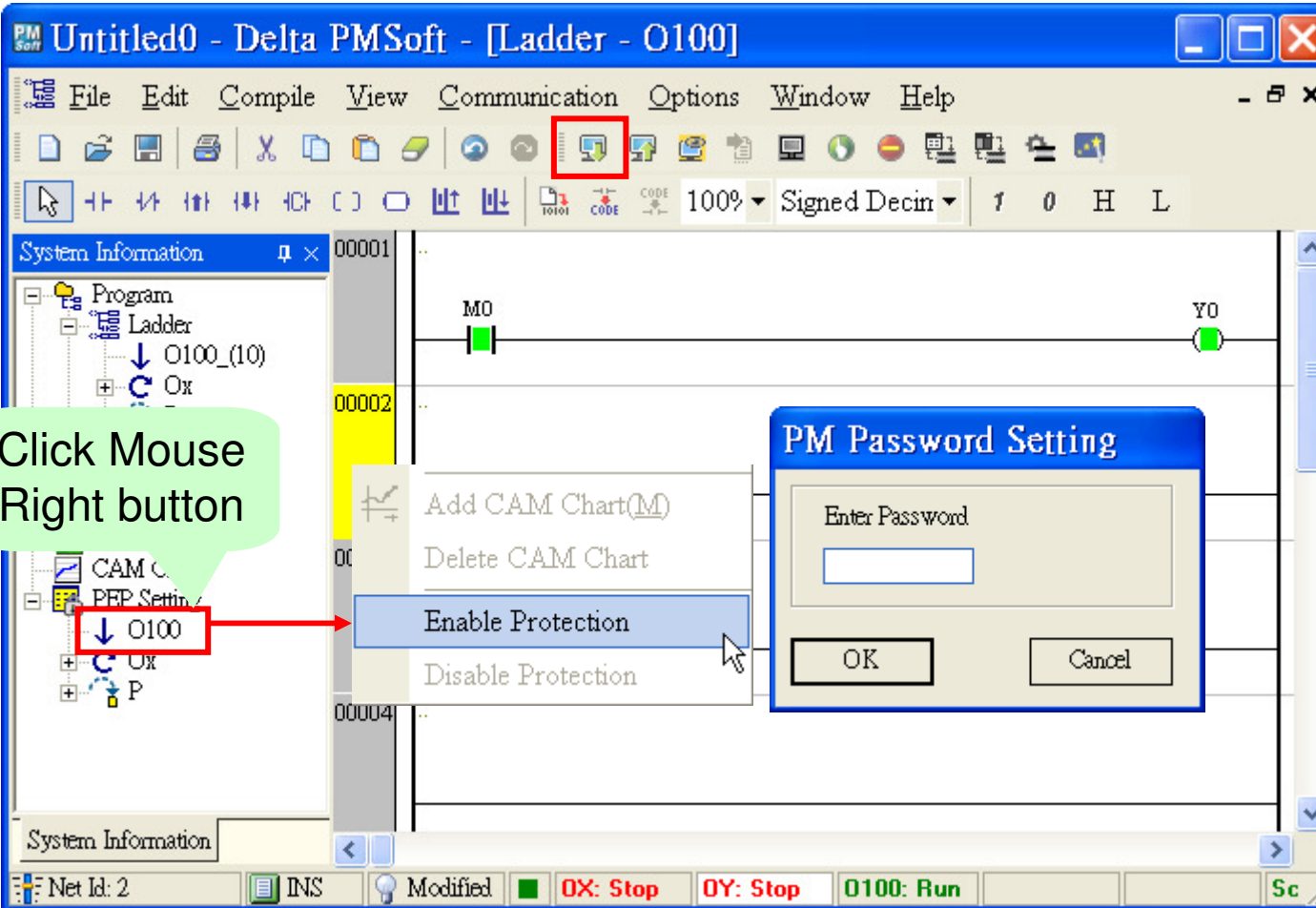
System Information

OX: Stop OY: Stop O100: Run Sc

Password Setting



PEP Setting



The screenshot shows the Delta PMSoft software interface. The main window is titled "Untitled0 - Delta PMSoft - [Ladder - O100]". The menu bar includes File, Edit, Compile, View, Communication, Options, Window, and Help. The toolbar contains various icons, with the "PEP Setting" icon highlighted by a red box. The main workspace displays a ladder logic diagram with a normally open contact labeled "MO" connected to a coil labeled "YO". A context menu is open over the "PEP Setting" icon in the left-hand tree view, with the "Enable Protection" option selected. A green callout bubble with the text "Click Mouse Right button" points to the right-click action. The "PM Password Setting" dialog box is open, featuring a text input field labeled "Enter Password" and "OK" and "Cancel" buttons. The status bar at the bottom shows "Net Id: 2", "INS", "Modified", and indicator lights for "OX: Stop", "OY: Stop", "O100: Run", and "Sc".

PM information

Communication

- Download Program
- Upload Program
- Password Setting
- Run O100
- Stop O100
- Tracing Ox Position
- PM information**
- Edit Register Memory(D)
- Edit Bit Memory(M)
- Monitoring
- Communication Setting

PM Information

PM Data	
Model Name :	<u>20PM00D</u>
Program Version :	<u>V1.5 (2231)</u>
Program Capacity :	65535
Program Check Sum :	14208
PM Check Sum :	14208(14208)
PM Program Steps :	13
PM PEP Steps :	0
PM CAM Steps :	0
Communication Address :	1
Communication Protocol :	<u>ASCII, 115200, E, 7, 1</u>
Password Status :	<u>Locked</u>
SWITCH Status :	AUTO
Extension Module :	0
Extension IO(X) :	0
Extension IO(Y) :	0

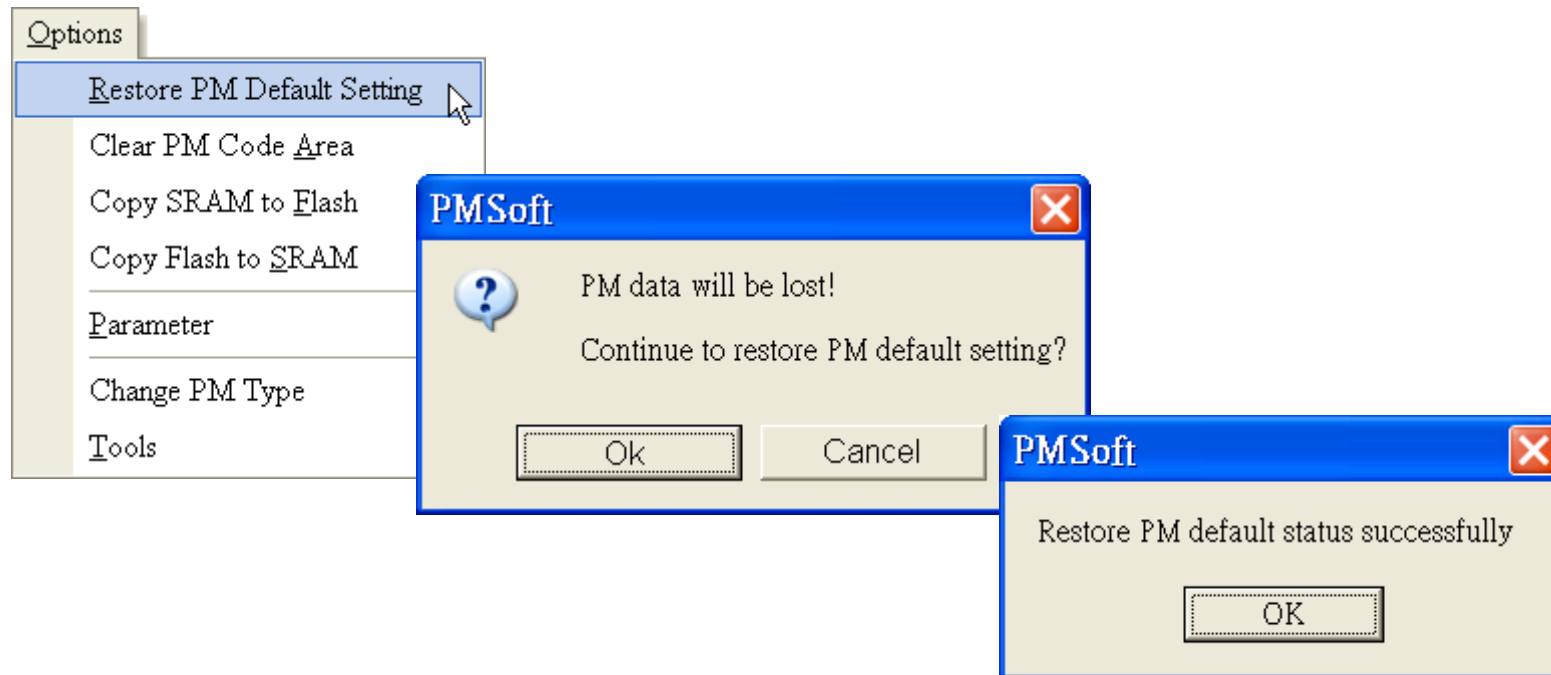
O100
READY Status : Stop
Error Number :
Error Address :

OX
READY Status : Stop
Error Number :
Error Address :

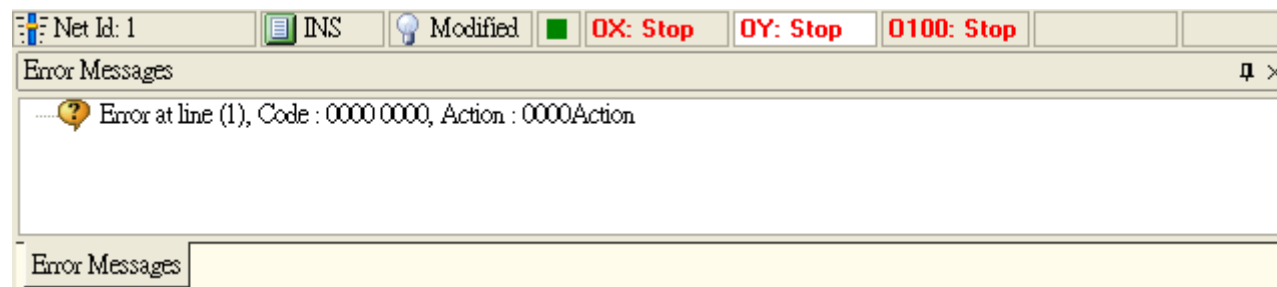
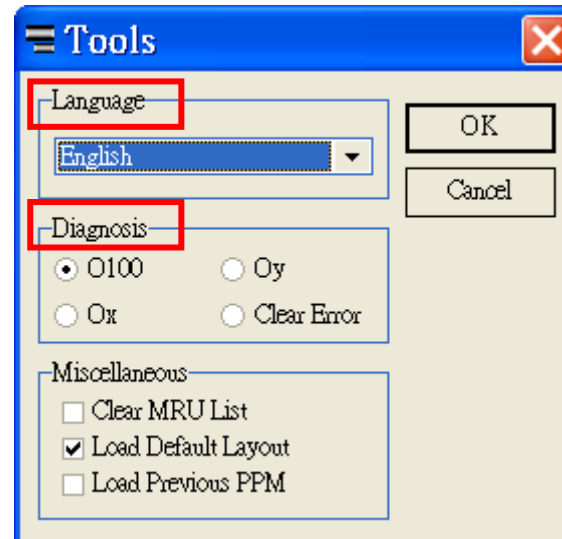
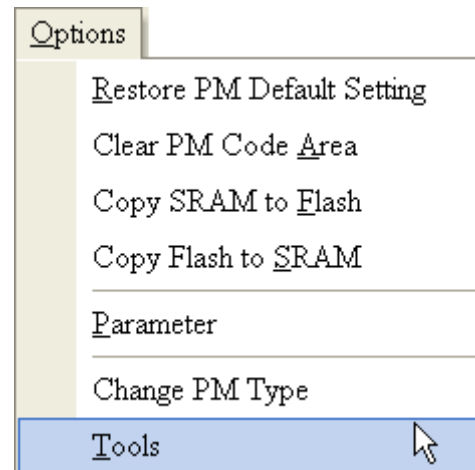
OY
READY Status : Stop
Error Number :

Close

Reset 20 PM



Tools





Parameter

PM Soft Main Parameter

Units | Speed | MacZero | Motion | Others | Show ALL

Axis X

System of Units

- Motor
- Mechanical
- Compound

Unit Type

mm deg inch

Scale

Pulse Rate

Feed Rate

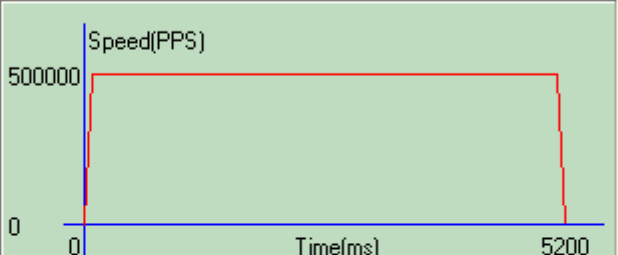


Parameter

PM Soft Main Parameter [X]

Units: Speed MacZero Motion Others Show ALL

Axis X:
 Max Speed: Hz



Bias Speed: Hz

Acc Time: ms Dec Time: ms

JOG Speed: Hz

Parameter

Main Parameter

Units | Speed | **MacZero** | Motion | Others | Show ALL

Axis X | **Select X Axis** | Select Z Axis
 Select Y Axis

n_Limit Switch Logic: Normally Open, Normally Closed
 p_Limit Switch Logic: Normally Open, Normally Closed
 DOG Switch Logic: Normally Open, Normally Closed
 Direction: Increasing, Decreasing

Velocity graph showing VRT (50000 Hz), VCR (1000 Hz), and DOG rising-edge detecting. Includes labels for Isolate from DOG near Signal, Contact DOG near Signal, Zero Return Direction, and DOG rising-edge detecting.

50000 VRT Hz
 1000 VCR Hz
 0 P pls
 0 N(PGO) Times

Go Zero Mode: Normal, Overwrite
 Dog Switch Option: Rise Edge, Falling Edge

OK Cancel Default Generate Code



Parameter

PM Soft Main Parameter [Close]

Units | Speed | MacZero | **Motion** | Others | Show ALL

Axis X

Pulse Output Format

- Forward and Reverse Rotation Pulses
- Rotation Pulses and Direction
- A/B Phase Pulses

Stop Mode

- Complete Remaining Distance
- Start from the Next Step
- Start

Rotation Direction

- Increases
- Decreases

Coordinate System

- Absolute System
- Incremental System

Selection of Acceleration Curve

- Trapezoid Type Curve
- S Type Curve

Home Position x10 pls

Electrical Zero Point Address x10 pls

Electronic Gear

Numerator

Denominator



Parameter

PM Soft Main Parameter [Close]

Units | Speed | MacZero | Motion | **Others** | Show ALL

Axis X

Program Number

Fix Program Number No.0
 Selecting Program Number

M Code Out

Output M Code
M Code Output Y Number

Output READY to Y

Select Manual Function

ZRN MPG JOG- JOG+

MPG Input Response Hz

Input X Start Number X



Parameter

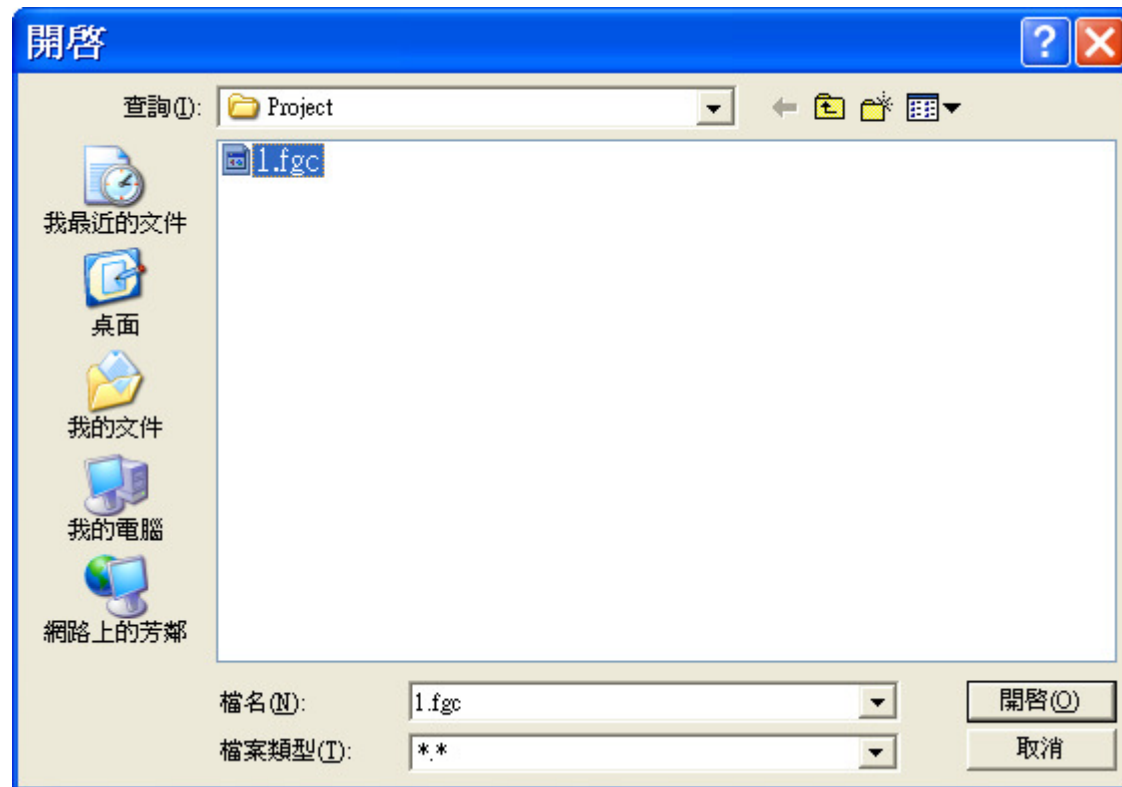
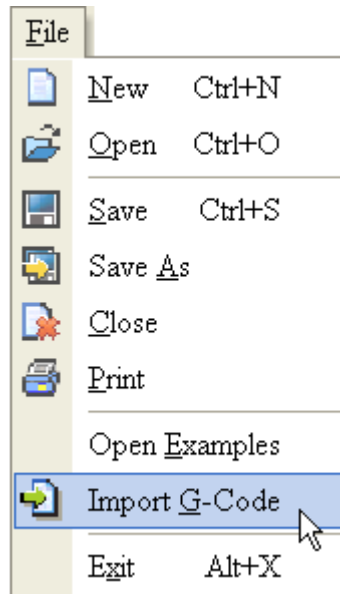
PM Soft Main Parameter ✕

Units | Speed | MacZero | Motion | Others | Show ALL

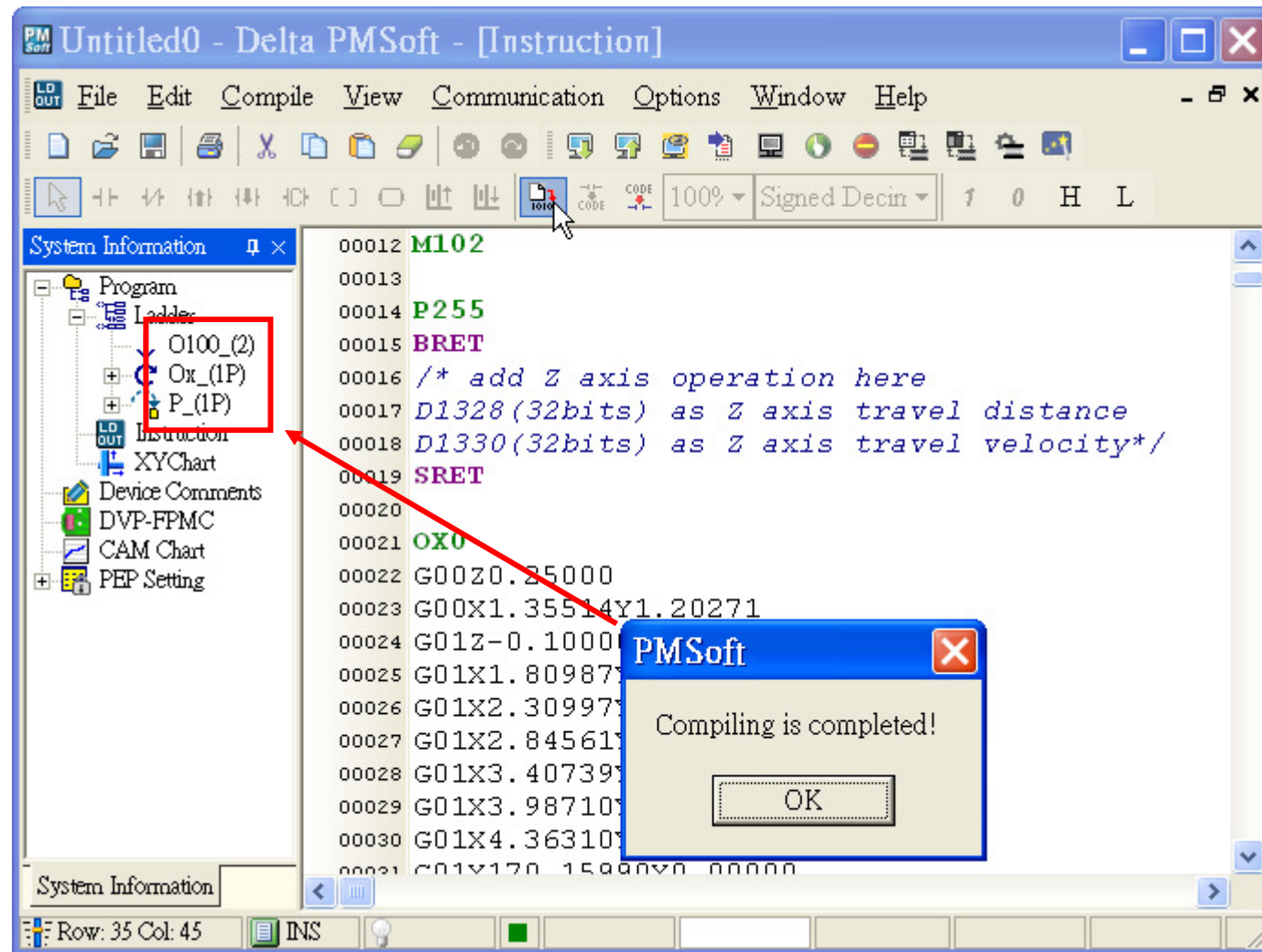
Common Setting			
NO.	Item	Parameter Setting	Description
1	X-Y AxisPolari input	0	<input type="button" value="A"/>
2	Z AxisPolari input	0	<input type="button" value="a"/>

Axis Setting								
NO.	Item	X-Axis	Unit	Y-Axis	Unit	Z-Axis	Unit	Description
1	Parameter	0		0		0		<input type="button" value="A"/>
2	Pulse rat	2000	pls/rev	2000	pls/rev	2000	pls/rev	<input type="button" value="a"/>
3	Feed rat	1000		1000		1000		<input type="button" value="a"/>
4	Max. Sp	500000	Hz	500000	Hz	500000	Hz	<input type="button" value="a"/>
5	Bias Sp	0	Hz	0	Hz	0	Hz	<input type="button" value="a"/>
6	JOG Sp	5000	Hz	5000	Hz	5000	Hz	<input type="button" value="a"/>
7	VRT	50000	Hz	50000	Hz	50000	Hz	<input type="button" value="a"/>
8	VCR	1000	Hz	1000	Hz	1000	Hz	<input type="button" value="a"/>
9	N(PGO)	0	Number	0	Number	0	Number	<input type="button" value="a"/>
10	P(Pulses)	0	pls	0	pls	0	pls	<input type="button" value="a"/>
11	Home Pos	0	x10 pls	0	x10	0	x10	<input type="button" value="a"/>
12	Acc time	100	ms	100	ms	100	ms	<input type="button" value="a"/>
13	Dec time	100	ms	100	ms	100	ms	<input type="button" value="a"/>

Import G-Code



Import G-Code



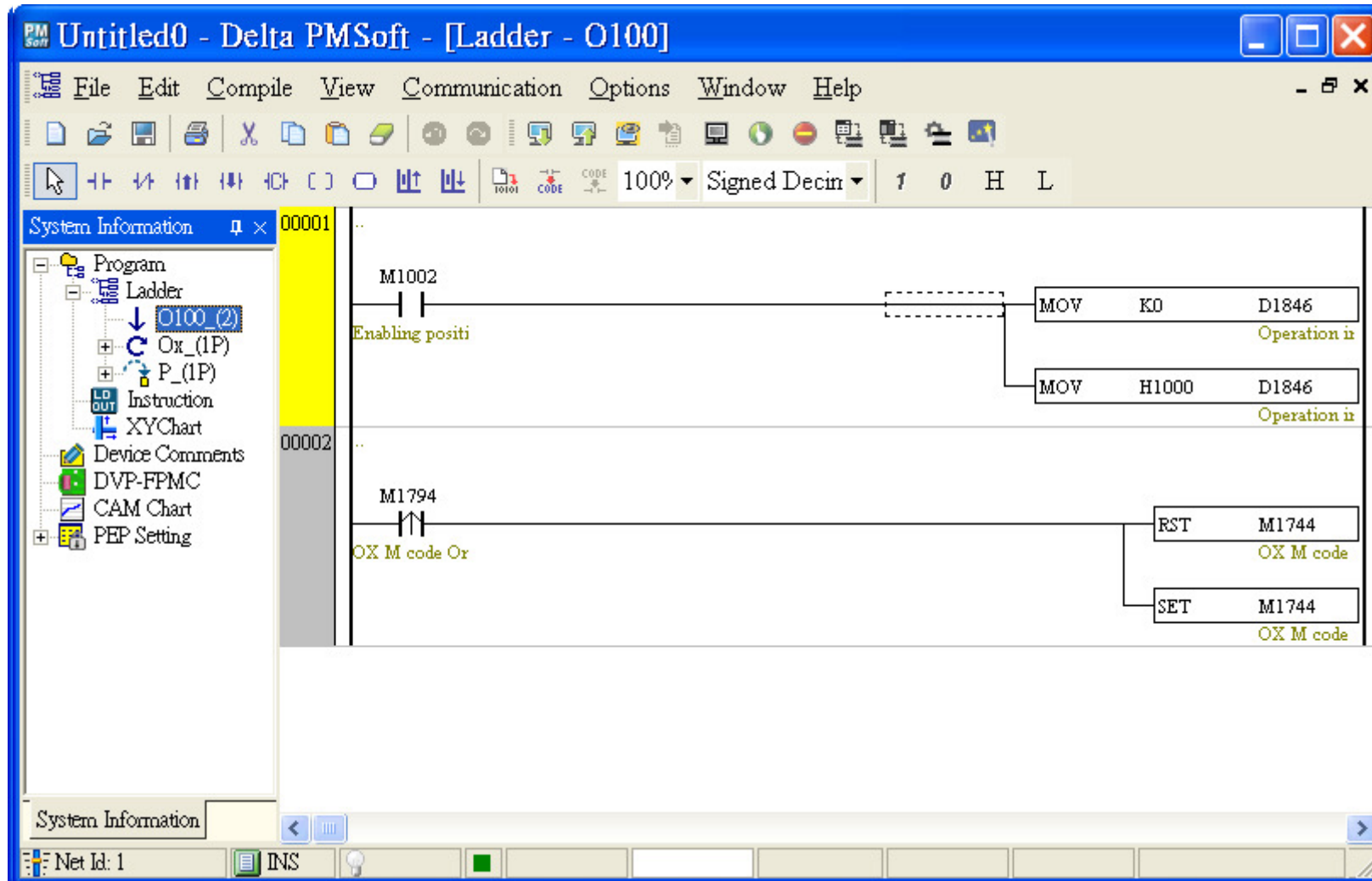
The screenshot displays the Delta PMSoft software interface. The main window, titled "Untitled0 - Delta PMSoft - [Instruction]", shows a G-code program being edited. The program content is as follows:

```
00012 M102
00013
00014 P255
00015 BRET
00016 /* add Z axis operation here
00017 D1328(32bits) as Z axis travel distance
00018 D1330(32bits) as Z axis travel velocity*/
00019 SRET
00020
00021 OX0
00022 G00Z0.25000
00023 G00X1.35514Y1.20271
00024 G01Z-0.10000
00025 G01X1.80987
00026 G01X2.30997
00027 G01X2.84561
00028 G01X3.40739
00029 G01X3.98710
00030 G01X4.36310
00031 G01X120.15990Y0.00000
```

The left-hand "System Information" pane shows a tree view with "Program" expanded to "Ladder", where "O100_(2)", "Ox_(1P)", and "P_(1P)" are listed. A red box highlights "P_(1P)", and a red arrow points from it to the "P255" instruction in the main editor. A "PMSoft" dialog box is overlaid on the editor, displaying the message "Compiling is completed!" and an "OK" button.

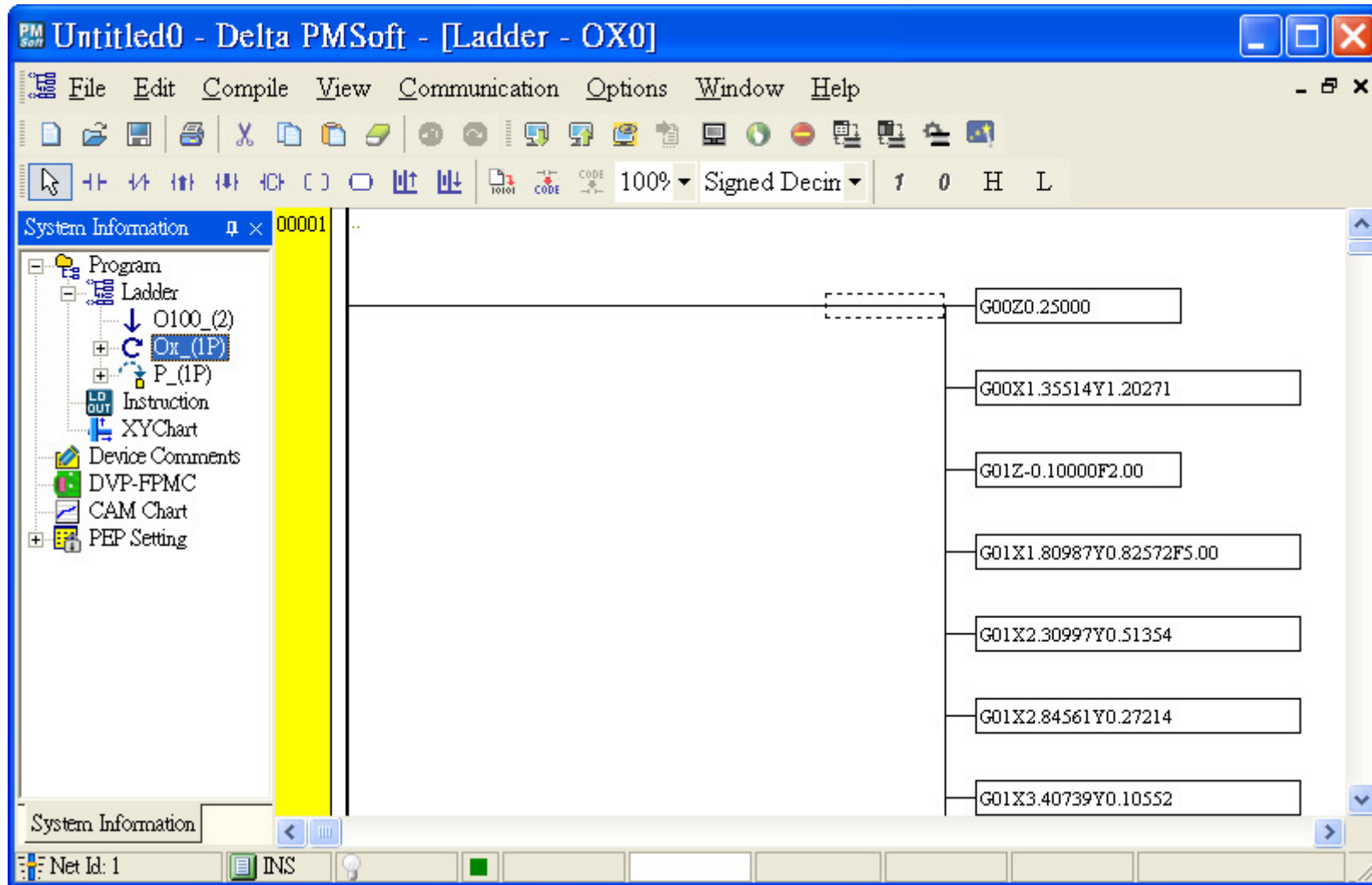


Import G-Code



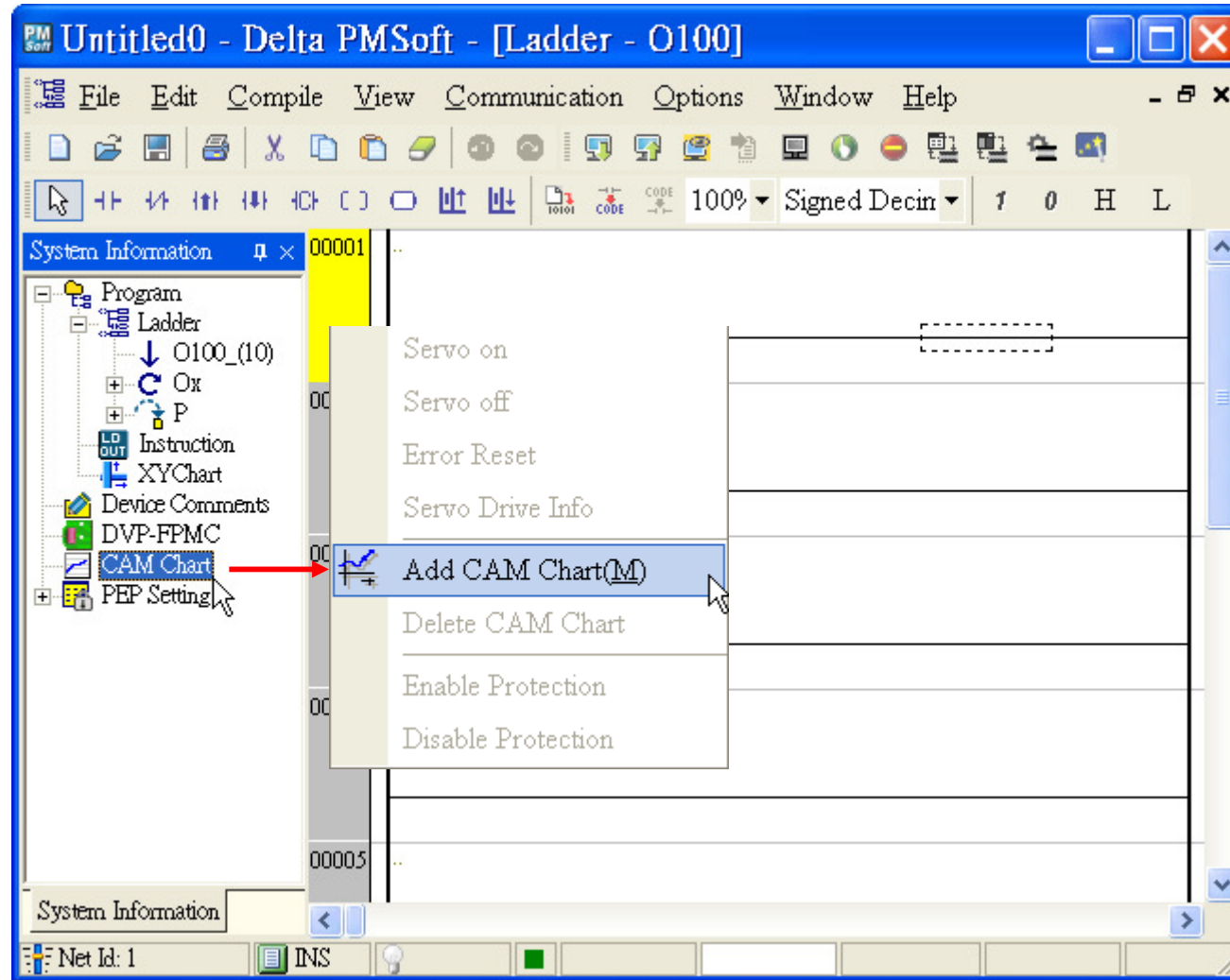


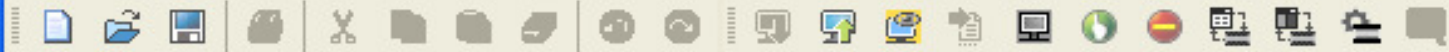
Import G-Code





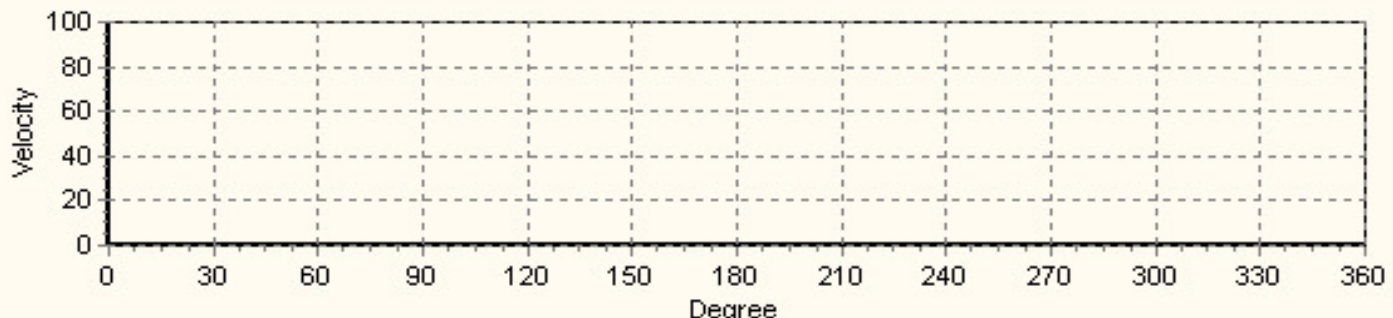
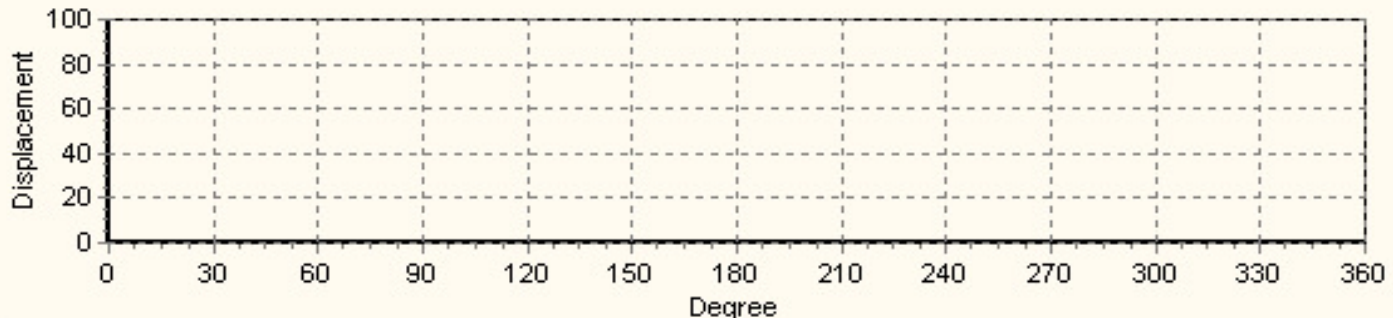
CAM Chart



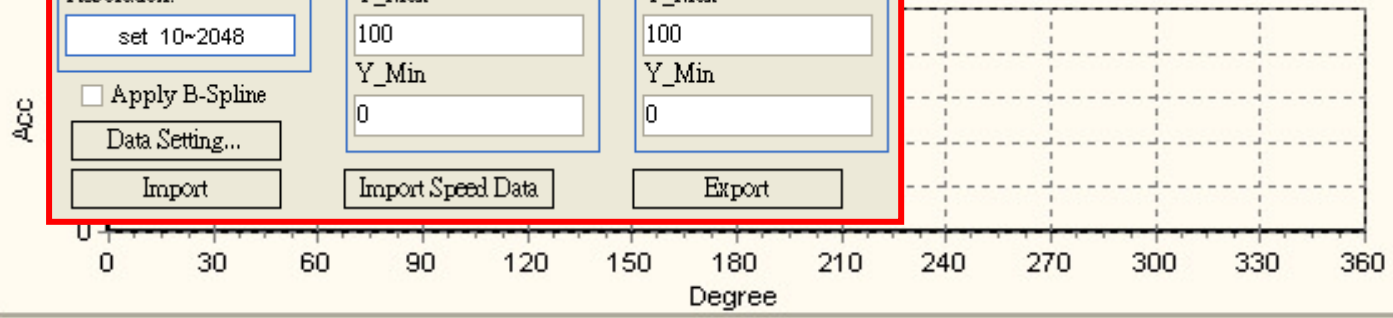


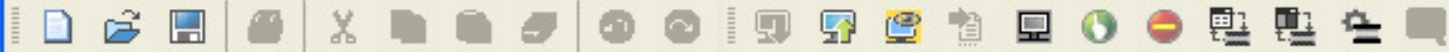
System Information

- Program
 - Ladder
 - O100_(10)
 - Ox
 - P
 - Instruction
 - XYChart
 - Device Comments
 - DVP-FPMC
 - CAM Chart
 - 0
 - PEP Setting



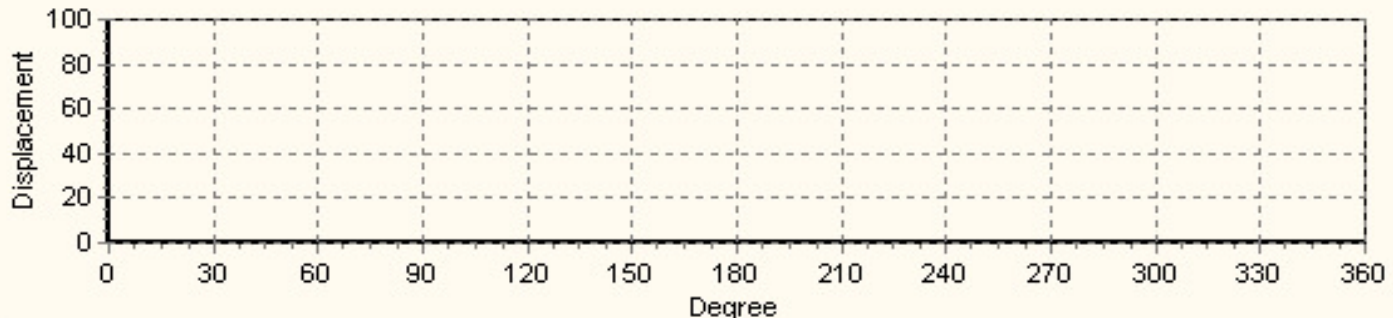
Displacement Resolution: set 10~2048 <input type="checkbox"/> Apply B-Spline Data Setting... Import	Velocity Y_Max: 100 Y_Min: 0 Import Speed Data	Acc Y_Max: 100 Y_Min: 0 Export
---	--	--





System Information

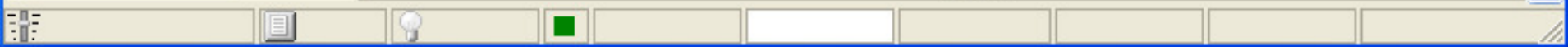
- Program
 - Ladder
 - O100_(10)
 - Ox
 - P
 - Instruction
 - XYChart
- Device Comments
- DVP-FPMC
- CAM Chart
 - 0
- PEP Setting



Stroke Setting

	Sect. No.	Angle[deg]	Stroke[%]	CAM Curve	Resolution
Velocity		0	0	NA	NA
	1	10000	10000	Const Speed	150
	2	20000	0	Const Speed	150
	3				
	4				
	5				
	6				
	7				
	8				
	9				
Acc	10				

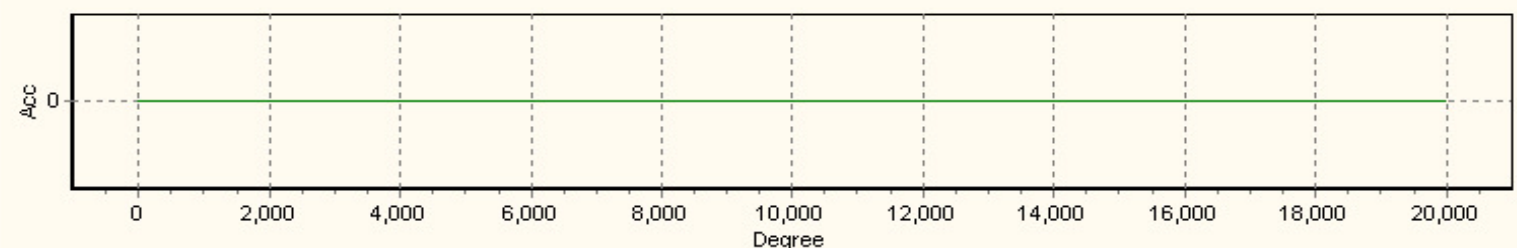
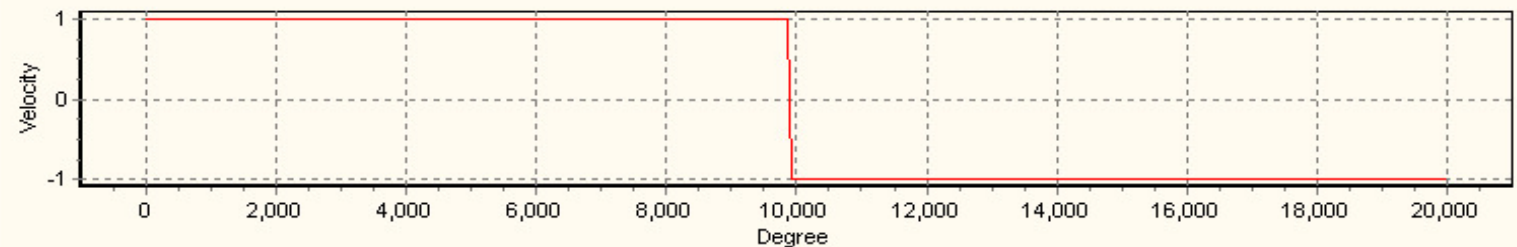
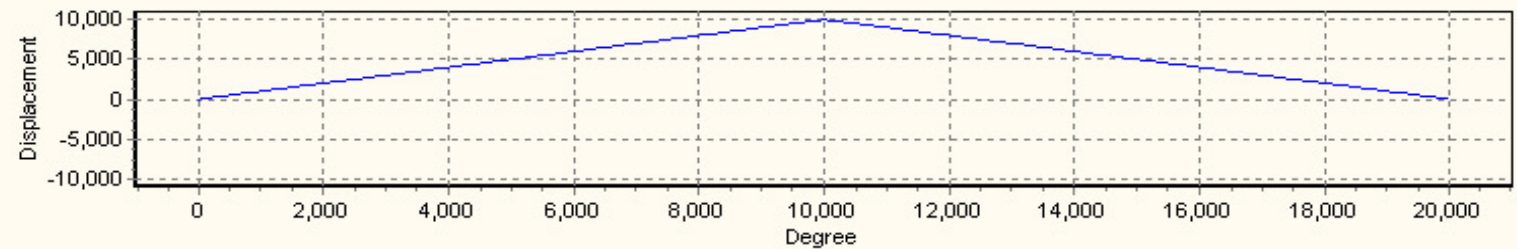
Stroke[%]:





System Information

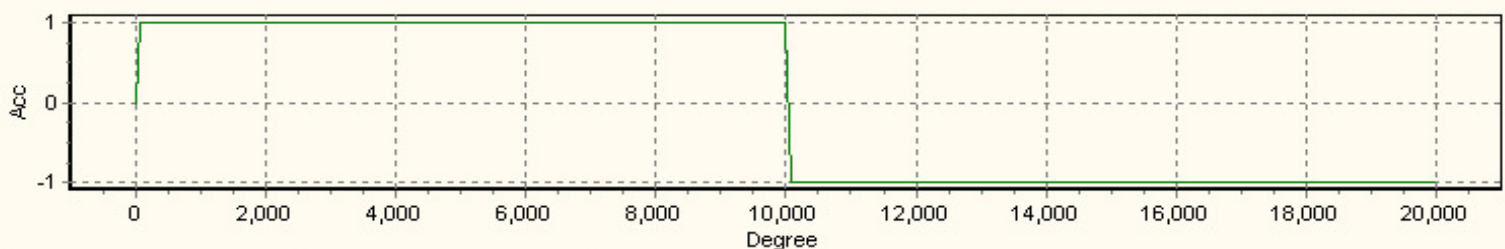
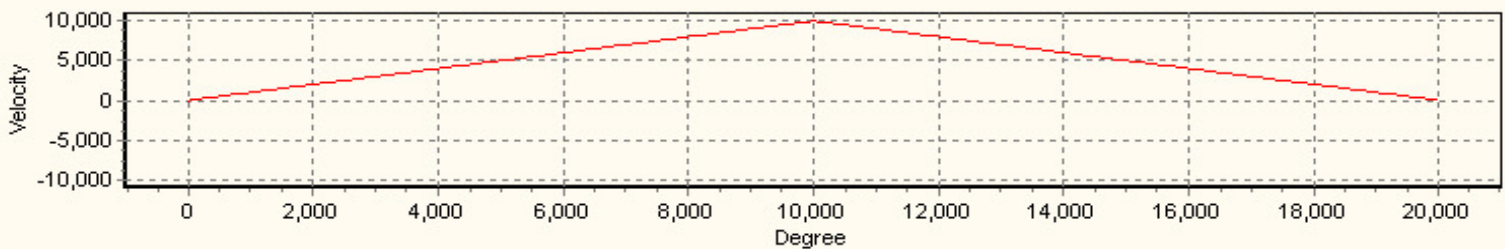
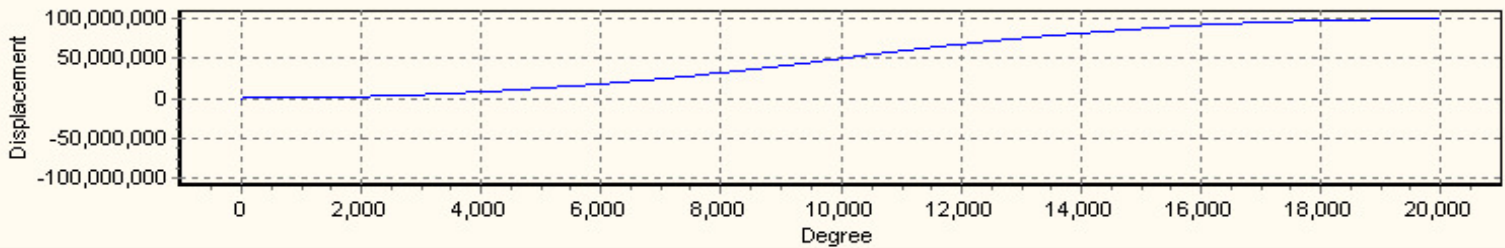
- Program
 - Ladder
 - O100_(10)
 - Ox
 - P
 - Instruction
 - XYChart
 - Device Comments
 - DVP-FPMC
 - CAM Chart
 - 0
 - PEP Setting



Displacement Resolution: 300 <input type="checkbox"/> Apply B-Spline Data Setting... Import	Velocity Y_Max 1.10000002384186 Y_Min -1.10000002384186 Import Speed Data	Acc Y_Max 0 Y_Min 0 Export
--	--	---

System Information

- Program
 - Ladder
 - O100_(10)
 - Ox
 - P
 - Instruction
 - XYChart
- Device Comments
- DVP-FPMC
- CAM Chart
 - 0
- PEP Setting



Displacement Resolution: 300	Velocity Y_Max 11000	Acc Y_Max 1.10001611709595
<input type="checkbox"/> Apply B-Spline	Velocity Y_Min -11000	Acc Y_Min -1.10001611709595
Data Setting...	Import	Import Speed Data
Import		Export



Thank you