

Renew PLC IP On-line & Reconnect Autonomous

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1. Overview and Operation

EB8000 provides system registers to observe Ethernet communication status. Users can change PLC IP addresses in HMI system register and re-connect the other Ethernet series PLC in LAN.

Renew PLC IP On-line & Autoconnect

OMRON CJ1/CS1 (Ethernet)

0	0	0	0	0	0	0	0
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Test PLC Communication / Device Type: D_0~7

192	168	1	94	9600
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PLC IP_LW9600~9604

-  LB10100: PLC4 status (Ethernet), Set ON to retry connection
-  LB10070: Forced to reconnect PLC4 (Ethernet) when IP changed On-line (set ON)
-  LB9153: Auto. connection for PLC4 (Ethernet) (When ON)

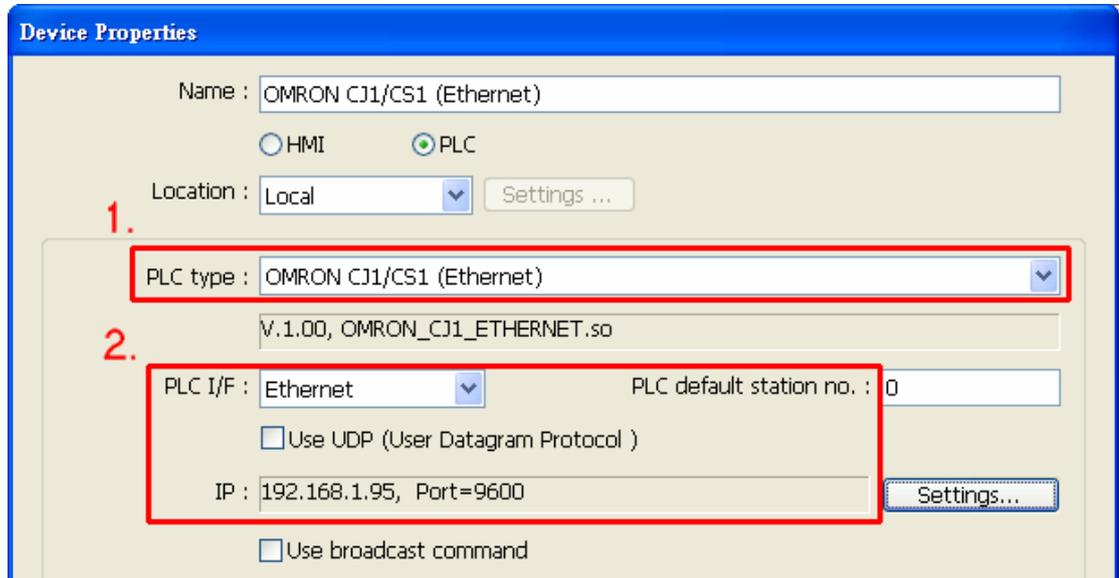
0	0	0	0	8000
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HMI IP_LW9129~9133

Rock Ink

2. Setting Up the Screen

1. Set up the Ethernet series PLC device in system parameter. (for example: OMRON CJ1/CS1 by Ethernet)



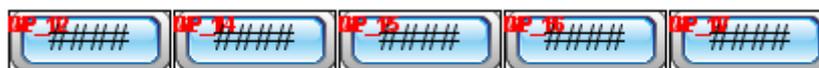
2. Create Numeric Objects to read PLC device. When HMI is connected successfully to communicate with PLC, these numeric objects will display the PLC register value. (Device type: D0~7)

OMRON CJ1/CS1 (Ethernet)



Test PLC Communication / Device Type: D_0~7

3. Create Numeric Object to read system register. System registers: LW9600~9604 (PLC IP address), LW9129~9133 (HMI Local IP address).



PLC IP_LW9600~9604



HMI IP_LW9129~9133

4. Create Toggle Switch objects to read system register
(LB10100/LB10070/LB9153)



LB10100: PLC4 status (Ethernet), Set ON to retry connection



LB10070: Forced to reconnect PLC4 (Ethernet) when IP changed On-line (set ON)



LB9153: Auto. connection for PLC4 (Ethernet) (When ON)

3. Object

The objects used in this demo project are listed below.

Object	ID	Detail
Numeric Input	NE0~7	To read PLC register
Numeric Input	NE8~12	System tag LW9600~9604(PLC IP)
Numeric Input	NE12~16	System tag LW9129~9133(HMI IP)
Toggle Switch	TS0	System tag LB10100
	TS1	System tag LB10070
	TS2	System tag LB9153