

WEINTEK IIOT LTD.

# Dynamic PLC IP Update & Auto-Reconnection

Demo Project

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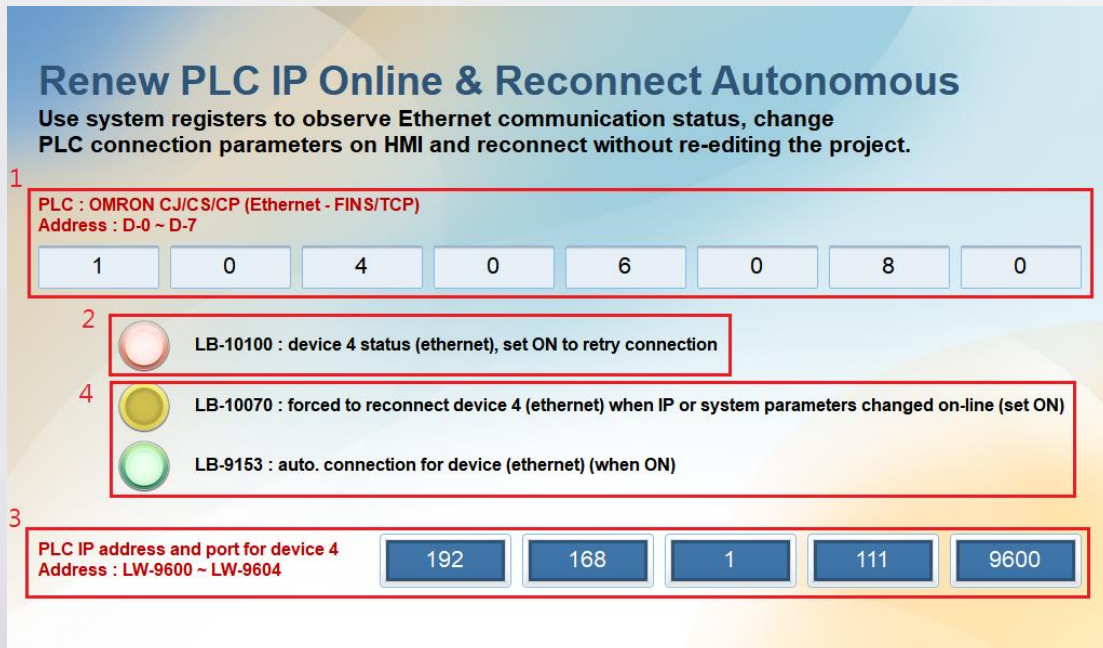
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## 1. Overview and Operation

### Overview

This demo project shows how to use system registers to monitor communication between the HMI and a PLC. PLC connection parameters can be dynamically modified and reconnected directly from the HMI, without editing the EasyBuilder Pro project.

### Operation



**Renew PLC IP Online & Reconnect Autonomous**  
Use system registers to observe Ethernet communication status, change PLC connection parameters on HMI and reconnect without re-editing the project.

1 PLC : OMRON C.J/CS/CP (Ethernet - FINS/TCP)  
Address : D-0 ~ D-7

1	0	4	0	6	0	8	0
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2 LB-10100 : device 4 status (ethernet), set ON to retry connection

4 LB-10070 : forced to reconnect device 4 (ethernet) when IP or system parameters changed on-line (set ON)

LB-9153 : auto. connection for device (ethernet) (when ON)

3 PLC IP address and port for device 4  
Address : LW-9600 ~ LW-9604

192	168	1	111	9600
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This project uses communication with an Omron PLC as a scenario where the PLC's IP address may change. Follow the steps below:

1. Confirm D-0 to D-7 values can be read and written.
2. Check PLC communication status via system register.
3. If the PLC IP changes, update it using the system register.
4. Set LB-10070 to ON to apply the new settings.

### 2. Object List

Key objects used in the project are listed below, please adjust as necessary.

Object	Description
Window 10	
Numeric	Used to read/write PLC values and HMI/PLC communication parameters.
Toggle Switch	Used to enable or disable communication and modify communication parameters.