

CPS-3550U

Modular PLC Application Trainer



EXPERIMENTAL CONTENTS

1. Principles of PLC operation
2. A/D Simulator and D/A Simulator
3. Operation of motors by timer and counter
4. Operation of motors by proximity sensors
5. Operation of output sequence by the analog switch
6. Operation of conveyor
7. Operation of pneumatic components
8. Operation of buzzer sound by input signals
9. Applications of the counter by photo sensor
10. How to operate the stepping motor
11. How to operate the position simulator
12. CW/CCW revolution of motors
13. Close-loop control on AI and AO by a PLC
14. Control practices of 3-phase motor control by inverter
15. Control practices of smart I/O
16. Control practices of 1-axis servo robot
17. Control practices of HMI Touch panel
18. Programming practice using PLC application software



FEATURES

- Cost-saving PLC system platform designed to replace one PLC with other
- Compatible with programmable logic controllers mostly popular in the market
- Easy installation of PLC special units for diverse level of PLC practices
- Supports configuration of diverse I/O conditions for realistic PLC experiments on (FMS and other automated system)

SPECIFICATIONS

•Worktable Set

Worktable	L-type panel structure (aluminum profile frame)
Main experiment panel (horizontal type)	Size : 800(W) x 605(D) mm
	Aluminum profile (each slot in the gap of 25mm)
	Flexible space utilization by fixing modules vertically or horizontally
Auxiliary panel (vertical type)	Size : 740(W) x 155(D) mm
	Aluminum profile (each slot in the gap of 25mm)
	Flexible space utilization by fixing modules vertically or horizontally
Drawer	Double drawer structure with a lock system Particle board (Low Pressure Melamine)
Cable holder	Number of mounting hole: 4ea Mounted to the side of worktable
Casters	Wheel with a lock: 4ea
Dimension	Worktable with Auxiliary panel - 800(W) x 605(D) x 1105(H) mm
	Worktable without Auxiliary panel - 800(W) x 605(D) x 750 (H) mm

Selectable System Configuration

(1) PLC Module (LS / Mitsubishi)

LS XGT PLC (*Select CPS-3550X or CPS-3625K)

XGT PLC Module (CPS-3550X)

- CPU Module : 1ea
- Power Module : 1ea
- Input Module : 2ea
- Output Module : 2ea
- Power Switch : 1ea
- Control Input : 2ea
- Control Output : 2ea



XGT PLC Module (CPS-3625K)

- CPU Module : 1ea
- Power Module : 1ea
- Input Module : 2ea
- Output Module : 2ea
- A/D Module : 1ea
- D/A Module : 1ea
- Positioning Module : 1ea
- Ethernet Module : 1ea



Mitsubishi PLC (*Select CPS-3550M or CPS-3625M)

MELSEC PLC Module (CPS-3550M)

- CPU Module : 1ea
- Power Module : 1ea
- Input Module : 2ea
- Output Module : 2ea
- A/D Module : 1ea
- D/A Module : 1ea
- Positioning Module : 1ea



MELSEC PLC Module (CPS-3625M)

- CPU Module : 1ea
- Power Module : 1ea
- Input Module : 2ea
- Output Module : 2ea
- A/D Module : 1ea
- D/A Module : 1ea
- Positioning Module : 1ea
- CC Link Module : 1ea



MITSUBISHI CC-Link

- CC-Link Input Module (CPS-3625M2) : 1ea
- CC-Link Output Module (CPS-3625M3) : 1ea



* Remark: Other brands of PLC such as Siemens can be provided upon request.

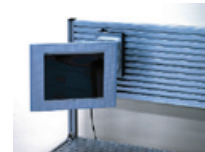
(2) Demonstration System (CPS-3550U)

- AC input voltage : AC220V 60Hz
- DC output voltage : DC 0~24V, 0~2A (variable) / DC 24V 2A (fixed), DVM, DAM
- I/O Terminal:
 - Input: 32 points
 - Output: 32 points
 - Connector (25-pin): 4ea
- A/D & D/A Simulator



(3) Touch Panel Module

- Type of screen : TFT Color LCD
- Screen size : 10.4" ~ 15"
- Display color : 65,536 Colors
- Luminance : 400cd/m2



(4) Servo Motor Trainer (CPS-AT4430)

- 50W Servo motor : 1ea
- Servo actuator unit : 1ea
- Signal detector
- Torque level analog
- Control switch
- Position input
- Positioning module



(5) Inverter Trainer (CPE-ER1010)

- 3-phase inverter : 1HP (0.75KW)
- 3-phase induction motor : 3-phase AC 220V
- I/O devices



STANDARD ACCESSORIES

- Power cord: 1ea
- Connection cable (4Ø): 1set
- 25-pin connector cable: 2ea
- RS-232C cable: 1ea
- PLC programming software CD: 1ea
- User's guide & experimental manual: 1ea