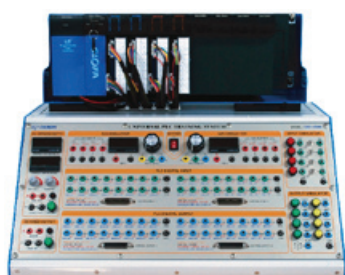


CPS-3500U

Universal PLC Training System



CPS-3500UB



CPS-3500UA

FEATURES

- All-in-one integrated training system designed to cultivate excellent technical professionals
- Capable of installing and replacing three types of PLC: Mitsubishi, LS and Siemens
- Easy installation of a modularized PLC and replacement of it with other type of PLC
- Equipped with a DC 24V power supply and an aluminum profile plate for mounting experimental modules easily
- 4-digit DC power monitoring device to check the status of power

EXPERIMENTAL CONTENTS

- Functions of the programmable logic controller
- 1:1 contact control by the input switches
- Group control of lighting by the analog switch
- Motor control by a timer and a counter
- Output sequence control by the analog switch
- Counter application by the photo sensor
- Motor control by the proximity sensor
- Controlling the buzzer sound by input signals
- Operations of the position simulator
- Interlock Circuit

SPECIFICATIONS

• Main Frame		
DC output power	Voltage	0~24V variable / 24V fixed
	Current	0~2A variable / 2A fixed
	Ripple	0.02% + 2mV
	Regulation	0.02% + 1mV
	Voltmeter	DVM
	Ammeter	DAM
	DC output protection	Overvoltage / overcurrent / overload protection, Alarm function
	Reset switch	1ea
	Alarm indicator lamp	1ea
I/O terminal	Input terminal	32 points (8 points / 1COM) 25-pin connector : 2ea
	Output terminal	32 points (8 points / 1COM) 25-pin connector : 2ea
	Analog input terminal	4 channels
	Analog output terminal	4 channels
I/O simulator	Input switch	Toggle switch (4ea), Push button (4ea) (Output terminal : 2COM, 8 points)
	Output lamp	8ea (input terminal : 1COM, 8 points)
	Output buzzer	1ea (input terminal : 1COM, 1 point)
A/D & D/A simulator	A/D signal variable system	10-turn variable resistor (for voltage I/O & current I/O) : 2ea 4Ø terminal block : 3ea
	Digital voltmeter	2ea (DC 15V scale)
	A/D input terminal	8 points / 1COM
	D/A output terminal	4 points / 1COM
Panel structure	Aluminum profile structure with each slot of 25mm Multi-connector for various PLC units	
Input voltage	AC 220V 50/60Hz	
Dimension	995(W) x 300(D) x 220(H) mm	

SPECIFICATIONS

• Mitsubishi PLC System (CPS-3500UA)		
CPU (Q03UDECPU)	Program capacity	28KB
	Device memory	29KB
	RAM	32KB
	Processing speed	0.079μs
Base Module (Q38B)	8 slots for installing the Q-series modules	
Power Module (Q62P)	Input voltage range	AC 100V ~ 240V
	Output voltage	DC 5V / 24V
	Output current	3A / 0.6A
Input Module (QX40 : 2ea)	16-point input	DC 24V 4mA
	Response time	1 / 5 / 10 / 20 / 70 ms
	16 points, 1 common	18-point terminal
Output Module (QY10 : 2ea)	16-point output	DC 24V / AC 240V 2A / 1 point, 8A / 1 common
	Response time	12 ms
	16 point, 1 common	18-point terminal
GX Developer (MELSEC PLC Programming software)	OS	WINDOWS 9x, XP, NT
	Program language	LD, SFC, ST, FB
	ALD language	ETHERNET, MELSECNET/H
	Network parameter setting	CC-LINK
PC Communication Cable		1ea
Main Frame		1ea
• LS GLOFA-GM4 PLC System (CPS-3500UB)		
CPU (GM4-CPUA)	Program memory	128KB
	Data memory	64KB
	Maximum I/O point	2048 points
Base Module (GM4-B08)	Number of slot	8ea (for mounting the GM4 module)
Power Module (GM4-PA2A)	Input voltage	AC220V
	Output voltage/current	DC5V 4A, DC24V 0.7A
Input Module (G4I-D22A): 2ea	16-point input	DC12V / 24V
	Rated input current	5mA / 11mA
	8 points 1 common	20-point terminal
Output Module (G4Q-RY2A): 2ea	16-point output	Relay
	Rated Load	DC12V / 24V, AC110/ 220V 2A
	8 points 1 common	20-point terminal
Analog Input Module (G4F-AD2A)	Voltage/current input type (4 channels)	DC -5 ~ +5V, -10 ~ +10V, -20 ~ +20mA
Analog Output Module (G4F-DA2V)	Voltage output type (4 channels)	DC -10 ~ +10V
PLC Programming Software	GMWin (GLOFA GM series software)	
PC Communication Cable	RS232C cable (1ea)	
Main Frame	1ea	

PLC Unit



• Siemens S7-1500 PLC System (CPS-3500UC)		
CPU	Processing speed	10ns
	Number of I/O modules	Maximum 8,192 ea
	Programming language	LAD, FBD, STL, SCL, Graph
	Power source	24VDC (reverse voltage prevention)
	Display	Diagonal 6.1cm
I/O Address Area	Digital input unit & voltage	32 contact points & 24VDC
	Digital output unit & voltage	32 contact points & 24VDC
	Analog input unit & voltage	8 channels & -10 ~ +10VDC (0 ~ 20mA)
	Analog output unit & voltage	4 channels & -10 ~ +10VDC (0 ~ 20mA)
PLC Programming Software	SIMATIC STEP 7 Professional	
PC Communication Cable	Ethernet cable (1ea)	
Main Frame	1ea	
• LS XGT PLC System (CPS-3500UD)		
CPU	Program memory	32K steps
	Self-diagnosis function	Arithmetic operation, memory error, I/O error, battery trouble, abnormal power
	Program port	RS-232C (1-channel), USB (1-channel)
Base module	Number of slot	8ea
Power module	Free Voltage	DC 5V 3A
		DC 24V 0.6A
Input module	Input 16 points (source)	DC 24V
Output module	Output 16 points	Relay
Analog Input module	Voltage input type (8 channels)	
Analog Output module	Voltage output type (4 channels)	
PLC Programming Software	XG5000	
PC Communication Cable	RS232C or USB cable (1ea)	
Main Frame	1ea	

* Select one of the four different PLC system: CPS-3500UA, CPS-3500UB, CPS-3500UC and CPS-3500UD

STANDARD ACCESSORIES

- Power cord : 1ea
- PLC download cable : 1ea
- Connection cable : 1set
- User's guide manual : 1ea

Integrated System Installation

