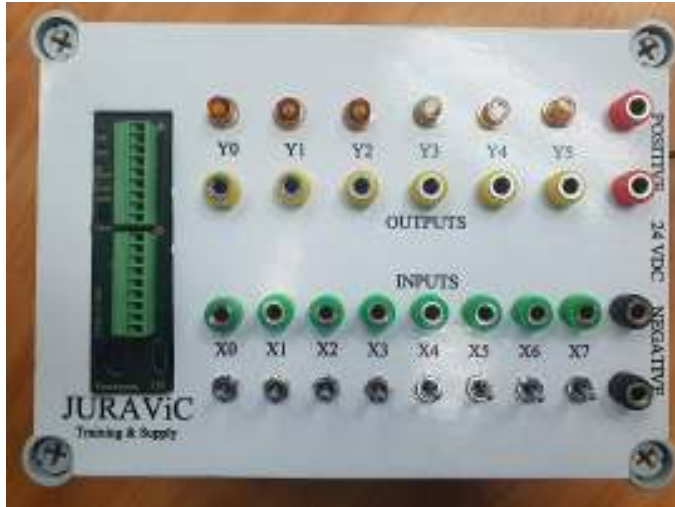


JUARA

micro PLC Training kit



Model : JTS FP0R-C14RS



This **JUARA** PLC Trainer comes with the latest FP0R-C14RS CPU. This training system is a complete all-in-one system with built-in power supply as well as all required inputs (simulation switches) and outputs (indicator lamps) together with 4mm electrical sockets built-in.

This JUARA micro PLC trainer can be programmed either using the NAIS FPWIN GR or FPWIN Pro software together with the standard USB cable connected to a personal computer to the USB tool port of the PLC.

Features:

- 8 digital inputs (toggle & rebound)
- 6 digital relay outputs
- Built-in 24Vdc power supply

Input components:

- 8 toggle switches
- 8 4mm electrical sockets

Output components:

- 6 indicator lamps
- 6 4mm electrical sockets

External inputs & outputs can be connected for greater flexibility via 4mm electrical sockets

CPU:

- Program memory : (EEPROM)
- Program capacity : 16K steps
- Operation speed : 0.08 ms
- Internal relays : 4096
- Timer/Counter : 1024
- Data register : 12315 words
- Master relay points : 256 bits
- Programmable via RS-485/232 or USB

Other features:

- Large capacity program
- Ultra-high speed processing
- Battery-less backup of all data

* USB programming cable and latest programming software FPWIN GR7S are included

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JUARA

Performance specifications (FP0R Control units)

Product type of FP0R control unit		C10 (Relay output type only)	C14 (Relay output type only)	C16 (Transistor output type only)
Programming method / Control method		Relay symbol / Cyclic operation		
Number of I/O points	No expansion (Control unit only)	10 points [Input: 6, Relay output: 4]	14 points [Input: 8, Relay output: 6]	16 points [Input: 8, Transistor output: 8]
	With expansion 1 Same type of control and expansion units (Note)	Max. 58 points	Max. 62 points	Max. 112 points
	With expansion 2 Mix type of relay and transistor units (Note)	Max. 106 points	Max. 110 points	Max. 112 points
Program memory		EEPROM (no backup battery required)		
Program capacity		16 k steps		
Number of instructions	Basic	110 approx.		
	High-level	210 approx.		
Operation speed	Up to 3,000 steps	Basic instructions: 0.08 µs min. Timer instructions: 2.2 µs min. High-level instructions: 0.32 µs (MV instruction) Min.		
	3,001st and later steps	Basic instructions: 0.58 µs min. Timer instructions: 3.66 µs min. High-level instructions: 1.62 µs (MV instruction) Min.		
Operation memory	Relay	Internal relay (R)	4,096 points	
		Timer / Counter (T / C)	1,024 points	
	Memory area	Data register (DT)	12,315 words	
		Index register (IX, IY)	14 words (IO to ID)	
Master control relay points (MCR)		256 words		
Number of labels (JMP and LOOP)		256 labels		
Differential points		Equivalent to the program capacity		
Number of step ladder		1,000 stages		
Number of subroutines		500 subroutines		
Special functions	High speed counter	Single-phase: 6 points (50 kHz max. each) 2-phase: 3 channels (15 kHz max. each)(Note)		
	Pulse output	Not available	4 points (50 kHz max. each) 2 channels can be controlled individually.(Note)	
	PWM output	Not available	4 points (6 Hz to 4.8 kHz)	
	Pulse catch input / interrupt input	Total 8 points (with high speed counter)		
	Interrupt program	Input: 8 programs (6 programs for C10 only) / Periodic: 1 program / Pulse match: 4 programs/td>		
	Periodical interrupt	In units of 0.5 ms: 0.5 ms to 1.5 sec. / In units of 10 ms: 10 ms to 30 sec.		
	Constant scan	In units of 0.5 ms: 0.5 ms to 600 ms		
	RS232C port	One RS232C port is mounted on each of C10CRS, C10CRM, C14CRS, C14CRM, C16CT, C16CP, C32CT, C32CP, T32CT, T32CP, F32CT and F32CP type (3P terminal block) Transmission speed (Baud rate): 2,400 to 115,200 bits/sec, Transmission distance: 15 m 9.843 ft. Communication method: half duplex		
RS485 port	One RS485 port is mounted on each of C10MRS, C14MRS, C16MT, C16MP, C32MT, C32MP, T32MT, T32MP, F32MT and F32MP type(3P terminal block) Transmission speed (Baud rate): 115.2 kbps (It is possible to change to 19.2 kbps by the setting.), Transmission distance: 1,200 m 3,937 ft, Communication method: half duplex			

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