

Pulse-train Motion Controller

DVP-PM



General Purpose Motion Controller

DVP10PM00M

- 2/3/4/5/6-axis linear interpolation motion control
- Highly accurate PWM 200kHz output, resolution 0.3%
- 8 groups of high-speed captures (mark correction, frequency measurement), comparative output, Mark/Mask function (for bag making)

- ▶ Built-in 24 I/O points. Max. 256 I/O points
- ▶ Program capacity: 64k steps/Data register: 10k words
- ▶ Higher execution speed compared to the competition: LD: 0.13μs, MOV: 2.1μs
- ▶ Built-in RS-232 and RS-485 ports
- ▶ Supports standard MODBUS ASCII/RTU protocol

■ Motion Control Functions

- ▶ High-speed pulse output: built-in 6 sets of A/B phase pulse outputs
- ▶ 2 sets of 200 kHz output, 4 sets of 1 MHz output
- ▶ 6 sets of high-speed counters and hardware digital filter for counting
- ▶ Supports MPG inputs
- ▶ Single-axis motion control function (supports 1st speed, 2nd speed, MPG function)
- ▶ Electronic gear function

Professional Motion Controllers

DVP20PM00D/M/DT

- Compatible with G-code/M-code
- 3-axis linear/arc/helical interpolation
- Not only a motion controller but also an extension module

- ▶ Functions as an extension module with DVP -PM and DVP-EH2 series
- ▶ PM Series (as an extension module) requires only Start/Stop command from the main PLC to function as a stand-alone motion controller without the limitation of PLC cycle time

■ Supports electronic cam (2048 points) function for flying shear and rotary cut applications

- ▶ Built-in 16 I/O points. Max. 512 I/O points
- ▶ Program capacity: 64k steps/Data register: 10k words
- ▶ Built-in RS-232 and RS-485 ports
- ▶ Supports standard MODBUS/ASCII/RTU protocol

■ Motion Control Functions

- ▶ Built-in A/B phase differential signal outputs: 2 sets (DVP20PM00D)/3 sets (DVP20PM00M). Max. differential output frequency is 500kHz
- ▶ Supports MPG inputs
- ▶ Single-axis motion control function (supports 1st speed, 2nd speed, MPG function)
- ▶ Electronic gear function

Ordering Information

Communication Converter

Product name	Description	Model name	Certificates
Converter	USB to RS-485 converter	IFD6500	 
	USB to CAN converter	IFD6503	
	USB to RS-485 converter	IFD6530	
	MODBUS TCP to RS-232/485 converter	IFD9506	
	EtherNet/IP to RS-232/485 converter	IFD9507	
	DeviceNet to RS-232/485 converter	IFD9502	
	CANopen to RS-232/485 converter	IFD9503	
	RS-232 to RS-422/485 isolated converter	IFD8500	
	RS-485 to RS-422 isolated repeater	IFD8510	
	RS-422/485 to RS-232 addressable isolated converter	IFD8520	

PM Series

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates	
General purpose motion controller	100~240VAC	Differential	16	16	DVP10PM00M	 	
		(Built-in 4-axis of independent 1MHz pulse output)					
Professional motion controller	100~240VAC	Differential	8	8	DVP20PM00DT		
		(Built-in 2-axis of independent 500kHz pulse output)			DVP20PM00D		
		(Built-in 3-axis of independent 500kHz pulse output)			DVP20PM00M		
PM series extension module		Description			Model name		
DVP-PM Communication card		Ethernet/CANopen communication card			DVP-FPMC		
DVP-PM Memory card		Data backup memory card (64k words)			PM-PCC01		
Execution time of basic instructions	0.13μs		Execution time of MOV instruction		3.74μs		

MC Series

Product name	Power supply	Output method	Inputs	Outputs	Model name	Certificates
Network type motion controller	24VDC	CANopen DS402	8	4	DVP10MC11T	 

TP Series

Product name	Description							Model name	Certificates
TP02	Resolution: 160 x 32, Serial COM ports: RS-232 & RS-485							TP02G-AS1	 
TP04	Resolution: 128 x 64, Serial COM ports: RS-232 & RS-422/RS-485							TP04G-AS2	
	Resolution: 192 x 64, Serial COM ports: RS-232 & RS-422/RS-485							TP04G-AL2	
	Resolution: 192 x 64, Serial COM ports: RS-232							TP04G-AL-C	
	Resolution: 192 x 64, Serial COM ports: RS-232 & RS-422/RS-485, 0~9 numeric keys available							TP04G-BL-C	
TP04P	Resolution: 192 x 64, Serial COM ports: USB & RS-485	8DI	8DO	-	-	Relay	TP04P-16TP1R	 	
		8DI	16DO	-	-	Relay	TP04P-32TP1R		
		8DI	8DO	4AI	2AO	Relay	TP04P-22XAIR		
		8DI	8DO	2AI	1AO	Relay	TP04P-21EX1R		
TP08	Resolution: 240 x 128, Serial COM ports: RS-232 & RS-422/RS-485,0~9 numeric keys available							TP08G-BT2	