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www.delta.com.tw/industrialautomation

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DVP

DELTA Programmable Logic Controller



www.delta.com.tw/industrialautomation

DVP-E Series MPU



DVP-EX

- Built-in 4-channel analog input and 2-channel analog output
- Integral communication functions
- Lowest-cost MPU with analog functions

Specification & Performance

MPU points: 20(8DI/6DO, 4AI/2AO)
Max. I/O points: 238
Program capacity: 4k steps
Communication port: Built-in RS-232 and RS-485, compatible with Modbus ASCII/RTU communication protocol

High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 10kHz.

Built-in High-Speed Counters

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/2	20kHz/10kHz	1	20kHz	1	4kHz

*Bandwidth refers to the max. counting bandwidth of a single counter.

Built-in Analog Input/Output

Analog Input		Analog Output	
Points	Resolution	Points	Resolution
4	10 bit	2	8 bit
Specification	-20~20mA or -10~10V	Specification	0~20mA or 0~10V

DVP-ES

- High reliability
- Maximum 256 I/O points extendable
- Most economical solution to small PLC sequential control and communication monitoring

Specification & Performance

MPU points: 14/24/30/32/40/60
Max. I/O points: 256
Program capacity: 4k steps
Communication port: Built-in RS-232 and RS-485, compatible with Modbus ASCII/RTU communication protocol

High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 10kHz.

Built-in High-Speed Counters

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/2	20kHz/10kHz	1	20kHz	1	4kHz

*Bandwidth refers to the max. counting range of a single counter.

DVP-EH2

- Outstanding operation performance
- Built-in large space for program and data storage
- Supports more than 203 application instructions
- 2-axis linear/arc interpolation motion control
- Run with various high-speed function extension modules/function cards for all kinds of real-time applications

Specification & Performance

MPU points: 16/20/32/40/48/64/80
Max. I/O points: 512
Program capacity: 16k steps
Instruction execution speed: 0.24μs (for basic instruction)
Communication port: Built-in RS-232 and RS-485, compatible with Modbus ASCII/RTU communication protocol.
Data register: 10,000 words
File register: 10,000 words

High-Speed Pulse Output

The pulse outputs 20-point and 32-point models support 2-point 200kHz pulse outputs (Y0, Y2).
The 40-point models support 2-group A, B phase 200kHz pulse outputs (Y0, Y1), (Y2, Y3) and 2-point 200kHz pulse output (Y4, Y6)

Built-in 4 Hardware High-Speed Counters

Standard		Hardware High-Speed Counter			
1 phase 1		1 phase 1		1 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
6	10kHz	2/2	200kHz/20kHz	2/2	200kHz/20kHz

* Bandwidth refers to the max. counting range of a single counter.

Outstanding Operation Performance

CPU + ASIC dual processors support floating point operations. The maximum execution speed of basic instructions can reach up to 0.24μs

Flexible Function Extension Modules / Function Cards

Multiple function extension modules/function cards contain additional functions of analog I/O, temperature measurement, single-axis motion control, high-speed counting and a 3rd series communication port, etc.

PLC EASY LINK

PLC EASY LINK allows users to link maximum 32 units to the network without having to install extra communication extension modules.

Linear/Arc Interpolation Motion Control

Supports the new linear/arc interpolation motion control instructions. Together with high-speed pulse outputs, DVP-EH2 is able to perform 2-axis synchronous control.

High-Speed Special Extension Module

Used together with the new special extension modules, DVP-EH2 is able to greatly shorten the data transmission time between MPU and its extension modules as well as enhancing the execution efficiency of the program.

For more detailed specifications, visit :<http://www.delta.com.tw/industrialautomation> for all user's manuals of DVP-PLC

DVP-S Series MPU



DVP-SS

- Suitable for basic applications
- Compact size
- Can run with special extension modules

Specification & Performance

MPU points: 14
Max. I/O points: 238
Program capacity: 4k steps
Communication port: Built-in RS-232 and RS-485, compatible with Modbus ASCII/RTU communication protocol

High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 10kHz.

Supports PID Auto-tuning

After the operation is completed, the parameters will be saved automatically.

Built-in 4-Group High-Speed Counter

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/2	20kHz/10kHz	1	20kHz	1	4kHz

*Bandwidth refers to the max. counting range of a single counter.

DVP-SA

- Large program capacity to enhance operation performance
- Best extendability

Specification & Performance

MPU points: 12
Max. I/O points: 236
Program capacity: 8k steps
Communication port: Built-in RS-232 and RS-485, compatible with Modbus ASCII/RTU communication protocol

High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 50kHz (Y0) and 10kHz (Y1).

Maximum 8 Special Modules Extendable

For analog I/O, temperature measurement, input point DIP switch, PROFIBUS/DeviceNet communication module, single-axis motion control.

Built-in High-Speed Counters

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/4	20kHz/10kHz	1	20kHz	1	4kHz/25kHz

*Bandwidth refers to the max. counting range of a single counter.

DVP-SX

- Built-in 2-channel analog input and 2-channel analog output
- Can run with 8 special extension modules

Specification & Performance

MPU points: 10(4DI/2DO, 2AI/2AO)
Max. I/O points: 230
Program capacity: 8k steps
Communication port: Built-in RS-232 and RS-485, compatible with Modbus ASCII/RTU communication protocol

High-Speed Pulse Output

Supports 2-point (Y0, Y1) independent high-speed pulse output, with frequency of up to 50kHz (Y0) and 10kHz (Y1).

Built-in High-Speed Counters

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/4	20kHz/10kHz	1	20kHz	1/1	4kHz/25kHz

*Bandwidth refers to the max. counting bandwidth of a single counter.

Built-in Analog I/O

Analog Input		Analog Output	
Points	2	Points	2
Resolution	12 bit(V)/11 bit(I)	Resolution	12 bit
Specification	-20 ~ 20mA or -10 ~ 10V	Specification	-20 ~ 20mA or -10 ~ 10V

DVP-SC

- 100kHz high-speed pulse output and 100kHz pulse counting

Specification & Performance

MPU points: 12
Max. I/O points: 236
Program capacity: 8k steps
Communication port: Built-in RS-232 and RS-485, compatible with Modbus ASCII/RTU communication protocol

High-Speed Pulse Output

Supports 2-point (Y10, Y11) independent high-speed pulse output, with frequency of up to 100kHz (Total bandwidth: 130kHz).

Supports Handy Position Control Instructions

By ZRN (zero return), DRVA (absolute position), and DRVI (relative position), DVP-SC is able to complete all kinds of motion controls by working with Delta servos.

Built-in 6-Group High-Speed Counter

1 phase 1		1 phase 2		2 phase 2	
Points	Bandwidth	Points	Bandwidth	Points	Bandwidth
2/4/2	20kHz/10kHz/100kHz	1/1	20kHz/100kHz	1/1	4kHz/50kHz

*Bandwidth refers to the max. counting bandwidth of a single counter.

Extension

DVP-EH2

Small PLC with the strongest operation performance!



- Maximum 512 points
- 200kHz high-speed pulse output
- New high-speed special extension modules
- Linear/arc interpolation motion control
- L type with left-side extension fauction

Function Cards

- Convert COM2 RS-485 into RS-232/422 interface

DVP-F232



DVP-F422



- Additional 3rd Communication Port

DVP-F232S



DVP-F485S



- Analog I/O

DVP-F2DA



DVP-F2AD



- Digital Input Point Extension

DVP-F4IP



- Transistor Output

DVP-F2OT



- Analog Input

DVP-F6VR



- Input Point DIP Switch

DVP-F8ID



- Frequency Measurement Card

DVP-F2FR



Connection with Other Devices

HMI



TP



Servo



VFD



Accessories

- Data Back-up Card

DVP-256FM



DVPPCC01



- Digital Display Panel

DVPDU01



- Data Transmission Cable

DVPACAB2A30



- Handheld Programming Panel

DVP-HPP



- Connector for DVD-EH/PM Series PLC

DVPAEXT01-H

- MPU-Extension Unit Connection Cable

DVPACAB4A09(0.9m)
DVPACAB4A18(1.8m)



Model Name	Specification
DVP16EH00R2	—AC— 8 8 R—
DVP16EH00T2	—AC— 8 8 T—
DVP20EH00R2	—AC— 12 8 R—
DVP20EH00T2	—AC— 12 8 T— 2-axis 200kHz (each axis) pulse output ; supports 1-group linear/arc interpolation motion control
DVP32EH00R2	—AC— 16 16 R—
DVP32EH00T2	—AC— 16 16 T— 2-axis 200kHz (each axis) pulse output ; supports 1-group linear/arc interpolation motion control
DVP32EH00M2	—AC— 40 40 T— 2-axis 200kHz line driver output
DVP32EH00R2-L*	—AC— 16 16 R—
DVP32EH00T2-L*	—AC— 16 16 T— 2-axis 200kHz (each axis) pulse output ; supports 1-group linear/arc interpolation motion control
DVP40EH00R2	—AC— 24 16 R—
DVP40EH00T2	—AC— 24 16 T— 4-axis 200kHz (each axis) pulse output ; supports 2-group linear/arc interpolation motion control
DVP48EH00R2	—AC— 24 24 R—
DVP48EH00T2	—AC— 24 24 T—
DVP64EH00R2	—AC— 32 32 R—
DVP64EH00T2	—AC— 32 32 T—
DVP80EH00R2	—AC— 40 40 R—
DVP80EH00T2	—AC— 40 40 T—

—AC— AC power supply C Input (points) U Output (points) R— Relay output T— Transistor output

* Supporting SV series left-side high-speed extension modules.

Serial Extension Modules

I/O Extension Modules

- Input Point Extension

DVP08HM11N
DVP16HM11N



- Output Point Extension

DVP08HN11R/T
DVP32HN00R/T



- Mixed I/O Extension

DVP08HP11R/T
DVP16HP11R/T
DVP32HP00R/T
DVP48HP00R/T



Analog Function Extension

- Analog Input

DVP04AD-H2
V : 14 bit
I : 13 bit



- Analog Output

DVP04DA-H2
V : 12 bit
I : 12 bit



- Mixed Analog I/O

DVP06XA-H2
Input 4CH/Output 2CH
V : 12 bit V : 12 bit
I : 11 bit I : 12 bit



Temperature Measurement

- Sensor: PT100

DVP04PT-H2



- Sensor: J, K, R, S, T Thermocouple

DVP04TC-H2



- The left-side high-speed parallel extension modules for DVP-SV are compatible with DVP32EH00R2-L and DVP32EH00T2-L

Motion Control

- Single-Axis Position Control

DVP01PU-H2



- 1-Channel High-Speed Counter

DVP01HC-H2



Extension



Most cost-effective solution to sequential control!

Compact Appearance; Flexible Extension!

DVP-ES

256 Points
Pulse Output 10kHz



DVP-EX

256 Points
Pulse Output 10kHz
Analog Input/Output



Model Name	Specification
DVP14ES00R2	—AC— 8 6 (R)→
DVP14ES00T2	—AC— 8 6 (T)→
DVP24ES00R2	—AC— 16 8 (R)→
DVP24ES00T2	—AC— 16 8 (T)→
DVP24ES11R2	—DC— 16 8 (R)→
DVP30ES00R2	—AC— 18 12 (R)→
DVP30ES00T2	—AC— 18 12 (T)→
DVP32ES00R2	—AC— 16 16 (R)→
DVP32ES00T2	—AC— 16 16 (T)→
DVP40ES00R2	—AC— 24 16 (R)→
DVP40ES00T2	—AC— 24 16 (T)→
DVP60ES00R2	—AC— 36 24 (R)→
DVP60ES00T2	—AC— 36 24 (T)→

—AC— AC power supply C Input (points) U Output (points)
—DC— DC power supply (R) Relay output (T) Transistor output

Model Name	Specification
DVP20EX00R2	—AC— 8DI, 4AI/6DO, 2AO (R)→
DVP20EX00T2	—AC— 8DI, 4AI/6DO, 2AO (T)→
DVP20EX11R2	—DC— 8DI, 4AI/6DO, 2AO (R)→

—AC— AC power supply C Input (points) U Output (points)
—DC— DC power supply (R) Relay output (T) Transistor output

I/O Extension Modules

■ Input Point Extension
DVP08XM11N
DVP16XM11N



■ Output Point Extension
DVP08XN11R/T
DVP16XN00R/T
DVP24XN11R/T
DVP24XN00R/T



■ Mixed I/O Extension
DVP08XP11R/T
DVP24XP11R/T
DVP24XP00R
DVP32XP00R/T



Connection with Other Devices

HMI



TP



Servo



VFD



Accessories

■ Data Back-up Card
DVPPCC01



■ Handheld Programming Panel
DVP-HPP



■ Data Transmission Cable
DVPACAB2A30(3m)



DVP-SS

The best micro-MPU for basic applications

Model	Spec
DVP14SS11R2	—DC— 8 6 (R)→
DVP14SS11T2	—DC— 8 6 (T)→

(R) Relay output C Input (points) U Output (points)
—DC— DC power supply (T) Transistor output

DVP-SX

Built-in analog input/output

Model	Spec
DVP10SX11R	—DC— (R)→ 4DI, 2AI/2DO, 2AO
DVP10SX11T	—DC— (T)→ 4DI, 2AI/2DO, 2AO

—DC— DC power supply (T) Transistor output
(R) Relay output

DVP-SA

Advanced performance
8k steps program capacity

Model	Spec
DVP12SA11R	—DC— 8 4 (R)→
DVP12SA11T	—DC— 8 4 (T)→

(R) Relay output C Input (points) U Output (points)
—DC— DC power supply (T) Transistor output

DVP-SC

Max. 100kHz pulse output
Max. 100kHz pulse counting

Model	Spec
DVP12SC11T	—DC— 8 4 (R)→

(R) Relay output C Input (points) U Output (points)
—DC— DC power supply (T) Transistor output

I/O Extension Modules

■ Input Point Extension
DVP08SM11N



■ Output Point Extension
DVP06SN11R
DVP08SN11R/T



■ Mixed I/O Extension
DVP08SP11R/T
DVP16SP11R/T



Analog Function Extension Modules

■ Analog Input
DVP04AD-S
V : 14 bit
I : 13 bit

DVP06AD-S
V : 14 bit
I : 13 bit



■ Analog Output
DVP04DA-S
DVP02DA-S
V : 12 bit
I : 12 bit



■ Mixed Analog I/O
DVP06XA-S
Input 4CH / Output 2CH
V : 12 bit V : 12 bit
I : 11 bit I : 12 bit



Temperature Measurement Modules

■ Sensor: PT100
DVP04PT-S



■ Sensor: J, K, R, S, T
Thermocouple
DVP04TC-S



Communication Modules

■ PROFIBUS Slave
DVPPF01-S



■ DeviceNet Slave
DVPDT01-S



Motion Control Modules

■ Single-Axis Position Control
DVP01PU-S



■ Power Supply Modules
DVPPS01
DVPPS02



Electrical Specifications & Dimension



Electrical Specifications

General Electrical Specifications

	AC	DC
Power Supply Voltage	100 ~ 240VAC (-15% ~ 10%), 50/60Hz ±5%	24VDC (-15% ~ 20%)
Fuse Capacity	2A/250VAC	2A/250VAC
Spike Voltage Durability	1500VAC (Primary-secondary); 1500VAC (Primary-PE); 500VAC (Secondary-PE)	
Insulation impedance	>5MΩ (all I/O point-to-ground: 500VDC)	
Noise Immunity	ESD: 8KV Air Discharge EFT: Power Line - 2KV Digital I/O 1KV Analog & Communication I/O 250V RS: 26MHz ~ 1GHz, 10V/m	
Earth	The diameter of grounding wire shall not be less than that of the wiring terminal of the power. (When many PLCs are in use at the same time, please make sure every PLC is properly grounded.)	
Operation/Storage	Storage: -25°C ~ 70°C (temperature); 5 ~ 95% (humidity) Operation: 0°C ~ 55°C (temperature); 50 ~ 95% (humidity); pollution degree 2	

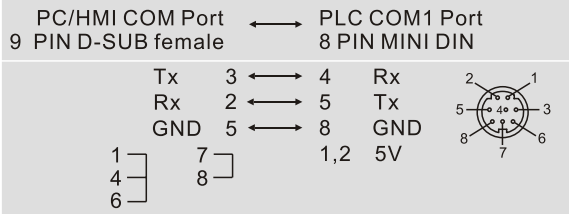
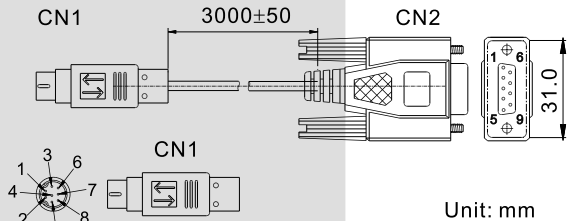
Input Point Specifications

	Single Common Port Input		
	General Speed(10kHz)	Medium Speed(20kHz)	High Speed(100kHz/200kHz)
Input Signal Type	SINK / SOURCE		
Input Signal Voltage	24VDC ± 10% (5mA)		
Response time			
ES/EX	0 ~ 15ms adjustable		
SS/SA/SX	0 ~ 20ms adjustable		
SC	0 ~ 20ms adjustable		4.7μs
EH2/SV	0 ~ 60ms adjustable		3μs
Motion Level	OFF->ON	> 16.5VDC	> 18.5VDC
	ON->OFF	< 8VDC	< 8VDC

Output Point Specifications

	Relay (R)	Transistor (T)	
		General Speed	High Speed
Max. Exchange (Working) Frequency	Load ON/OFF Control	10kHz	50kHz/100kHz/200kHz
Current Specification			
ES/EX	2A	0.3A/1 point@40°C	<1kHz, 0.3A/1 point@40°C ≥1kHz, 30mA/1 point@40°C
SS	1.5A		
SA/SX/SC	1.5A		
EH2	2A		
SV	1.5A		
Voltage Specification	250VAC/30VDC	30VDC	
Response Time	10ms	OFF->ON: 20μs ON->OFF: 30μs	EH2/SV 0.5μs SC 1μs SA/SX 2μs

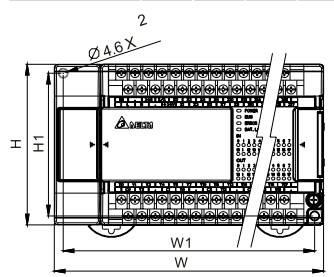
DVPACAB2A30 PIN Definition



Dimension

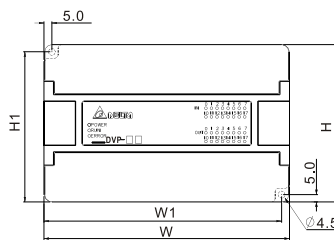
EH2 Series MPU

Model (mm)	H	H1	W	W1	W2
DVP16EH00R2/T2	90	80	113	103	82
DVP20EH00R2/T2	90	80	113	103	82
DVP32EH00M2	90	80	143.5	133.5	82
DVP32EH00R2/T2	90	80	143.5	133.5	82
DVP32EH00R2-L	90	80	143.5	133.5	82
DVP32EH00T2-L	90	80	143.5	133.5	82
DVP40EH00R2/T2	90	80	158.5	153.5	82
DVP48EH00R2/T2	90	80	174	164	82
DVP64EH00R2/T2	90	80	212	202	82
DVP80EH00R2/T2	90	80	276	266	82



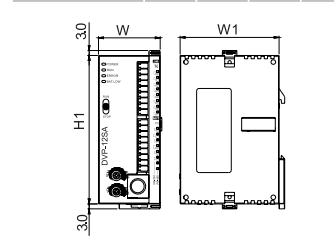
ES/EX Series I/O Extension Units

Model (mm)	H	H1	W	W1	W2
DVP08XM11N	100	95	42	37.5	82
DVP16XM11N	100	95	104	99	82
DVP08XN11R/T	100	95	42	37.5	82
DVP16XN11R/T	100	95	155	150	82
DVP24XN11R/T	100	95	155	150	82
DVP24XN00R/T	100	95	155	150	82
DVP08XP11R/T	100	95	42	37.5	82
DVP24XP11R/T	100	95	155	150	82
DVP24XP00R	100	95	155	150	82
DVP32XP00R/T	100	95	155	150	82



SS/SA/SX/SC Series MPU

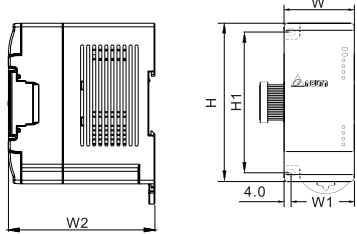
Model (mm)	H	H1	W	W1
DVP14SS11R2/T2	96	90	25.2	60
DVP12SA11R/T	96	90	37.4	60
DVP10SX11R/T	96	90	37.4	60
DVP12SC11T	96	90	37.4	60



EH2 Series I/O Extension Units & Extension Modules

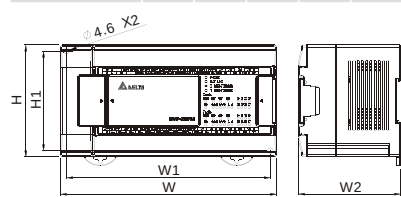
Model (mm)	H	H1	W	W1	W2
DVP08HM11N	90	80	40	36	82
DVP16HM11N	90	80	55	51	82
DVP08HN11R/T	90	80	40	36	82
DVP32HN00R/T	90	80	143.5	133.5	82
DVP08HP11R/T	90	80	40	36	82
DVP16HP11R/T	90	80	55	51	82
DVP32HP00R/T	90	80	143.5	133.5	82
DVP48HP00R/T	90	80	174	164	82

Model (mm)	H	H1	W	W1	W2
DVP04AD-H2	90	80	60	56	82
DVP04DA-H2	90	80	60	56	82
DVP06XA-H2	90	80	60	56	82
DVP04PT-H2	90	80	60	56	82
DVP04TC-H2	90	80	60	56	82
DVP01PU-H2	90	80	60	56	82
DVPDT02-H2	90	80	40	56	82
DVPCP02-H2	90	80	40	56	82
DVPPF02-H2	90	80	40	56	82



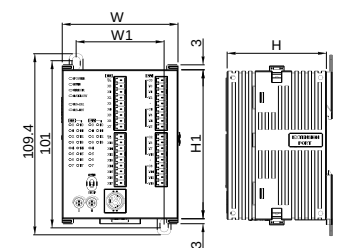
PM Series MPU

Model (mm)	H	H1	W	W1	W2
DVP20PM00D	90	80	174	164	82



SV Series MPU

Model (mm)	H	H1	W	W1
DVP28SV11R/T	60	90	70	55



SV Left Side Extension Modules

Model (mm)	H	H1	W	W1
DVPEN01-SL	96	90	33.1	60
DVPCOPM-SL	96	90	33.1	60
DVPDNET-SL	96	90	33.1	60

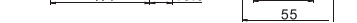
Remote I/O

Model (mm)	H	H1	W	W1
RTU-DNET	96	90	25.2	60
RTU-485	96	90	25.2	60

SS/SA/SX/SC Series I/O Extension Units & Extension Modules

Model (mm)	H	H1	W	W1
DVP08SM11N	96	90	25.2	60
DVP06SN11R	96	90	25.2	60
DVP08SN11R/T	96	90	25.2	60
DVP08SP11R/T	96	95	25.2	60
DVP16SP11R/T	96	90	25.2	60

Model (mm)	H	H1	W	W1
DVP04AD-S	96	90	25.2	60
DVP06AD-S	96	90	25.2	60
DVP02DA-S	96	90	25.2	60
DVP04DA-S	96	90	25.2	60
DVP06XA-S	96	90	25.2	60
DVP04PT-S	96	90	25.2	60
DVP04TC-S	96	90	25.2	60
DVP01PU-S	96	90	25.2	60
DVPPF01-S	96	90	25.2	60
DVPDT01-S	96	90	25.2	60
DVPPS01	96	90	25.2	60
DVPPS02	96	90	25.2	60



Ordering Information



EH2 Series MPU

Model	Power supply	Output method	Inputs	Outputs	Model name	Standard
EH2 standard MPU	100~240VAC	Relay (left-side extension available)	8	8	DVP16EH00R2	 
	100~240VAC	Transistor	8	8	DVP16EH00T2	
		Relay	12	8	DVP20EH00R2	
	100~240VAC	Transistor	12	8	DVP20EH00T2	
		Built in with 2 axes of independent 200kHz pulse output				
	100~240VAC	Transistor	16	16	DVP32EH00T2	
		Built in with 2 axes of independent 200kHz pulse output				
	100~240VAC	Relay	16	16	DVP32EH00R2	
	100~240VAC	Line driver	16	16	DVP32EH00M2	
	100~240VAC	Relay(left-side extension available)	16	16	DVP32EH00R2-L	
		Transistor(left-side extension available)	16	16	DVP32EH00T2-L	
	100~240VAC	Transistor	24	16	DVP40EH00T2	
		Built in with 4 axes of independent 200kHz pulse output				
	100~240VAC	Relay	24	16	DVP40EH00R2	
	100~240VAC	Relay	24	24	DVP48EH00R2	
	100~240VAC	Transistor	24	24	DVP48EH00T2	
	100~240VAC	Relay	32	32	DVP64EH00R2	
	100~240VAC	Transistor	32	32	DVP64EH00T2	
	100~240VAC	Relay	40	40	DVP80EH00R2	
	100~240VAC	Transistor	40	40	DVP80EH00T2	
Execution time of basic instruction		0.24μs		Execution time of output instruction		0.24μs

EH2 Series Extension Unit/Module

Model	Output method	Inputs	Outputs	Model name	Standard
Digital extension unit	Relay	4	4	DVP08HP11R	 
	Transistor	4	4	DVP08HP11T	
	Relay	-	8	DVP08HN11R	
	Transistor	-	8	DVP08HN11T	
	-	8	-	DVP08HM11N	
	Relay	8	8	DVP16HP11R	
	Transistor	8	8	DVP16HP11T	
	-	16	-	DVP16HM11N	
	Relay	-	32	DVP32HN00R	
	Transistor	-	32	DVP32HN00T	
	Relay	16	16	DVP32HP11R	
	Transistor	16	16	DVP32HP11T	
	Relay	24	24	DVP48HP00R	
	Transistor	24	24	DVP48HP00T	
Analog extension module	• 4 points of analog voltage (-10V~+10V) /current (-20mA~+20mA) input • Resolution: 14 bit • Photocoupler isolation • Built-in RS-485 interface			DVP04AD-H2	
	• 4 points of analog voltage (0V~+10V)/current (0mA~+20mA) output • Resolution: 12 bit • Photocoupler isolation • Built-in RS-485 interface			DVP04DA-H2	
	• 4 points of analog voltage (-10V~+10V)/current (-20mA~+20mA) input • 2 points of analog voltage (0V~+10V)/current (0mA~+20mA) output • Resolution: 12 bit • No isolation • Built-in RS-485 interface			DVP06XA-H2	

EH2 Series Extension Unit/Module

Model	Output method	Inputs	Outputs	Model name	Standard
Temperature measurement module	• 4 points of platinum temperature sensor (Pt100) input • Resolution: 0.1°C • Photocoupler isolation • Built-in RS-485 interface			DVP04PT-H2	 
Temperature measurement module	• 4 points of thermocouple temperature sensor (K, J type) input • Resolution: 0.1°C • Photocoupler isolation • Built-in RS-485 interface			DVP04TC-H2	
Positioning module	Single-axis 200kHz servo positioning control			DVP01PU-H2	
High-speed counter module	• 1CH high-speed counter			DVP01HC-H2	
Communication module	ROFIBUS DP slave communication module			DVPPF02-H2	
	CANopen industrial network slave module			DVPCP02-H2	
	DeviceNet industrial network slave module			DVPDT02-H2	
Function card	RS-232 communication port conversion (COM2)			DVP-F232	
	RS-422 communication port conversion (COM2)			DVP-F422	
	RS-232 communication port (COM3) extension			DVP-F232S	
	RS-485 communication port (COM3) extension			DVP-F485S	
	• 2 points of analog voltage (0V~+10V)/current (0mA~+20mA) input • Resolution: 12 bit • No isolation			DVP-F2AD	
	• 2 points of analog voltage (0V~+10V)/current (0mA~+20mA) output • Resolution: 12 bit • No isolation			DVP-F2DA	
	4 points of digital input			DVP-F4IP	
	2 points of transistor output			DVP-F2OT	
	8 points of digital input DIP switch			DVP-F8ID	
	6 points of analog input rotary switch			DVP-F6VR	
	Frequency measurement card			DVP-F2FR	
	Displaying registers, RTC and so on			DVPDU01	
Digital display panel	Displaying registers, RTC and so on			DVPDU01	

ES/EX Series MPU

Model	Power supply	Output method	Inputs	Outputs	Model nme	Standard
ES standard MPU	100~240VAC	Relay	8	6	DVP14ES00R2	 
	100~240VAC	Transistor	8	6	DVP14ES00T2	
	100~240VAC	Relay	16	8	DVP24ES00R2	
	100~240VAC	Transistor	16	8	DVP24ES00T2	
	100~240VAC	Relay	18	12	DVP30ES00R2	
	100~240VAC	Transistor	18	12	DVP30ES00T2	
	100~240VAC	Relay	16	16	DVP32ES00R2	
	100~240VAC	Transistor	16	16	DVP32ES00T2	
	100~240VAC	Relay	24	16	DVP40ES00R2	
	100~240VAC	Transistor	24	16	DVP40ES00T2	
	100~240VAC	Relay	24	24	DVP48ES00R2	
	100~240VAC	Transistor	24	24	DVP48ES00T2	
	100~240VAC	Relay	36	24	DVP60ES00R2	
	100~240VAC	Transistor	36	24	DVP60ES00T2	
EX analog MPU	100~240VAC	Relay	8	6	DVP20EX00R2	
		Analog	4	2		
	100~240VAC	Transistor	8	6	DVP20EX00T2	
		Analog	4	2		
	24VDC	Relay	8	6	DVP20EX11R2	
		Analog	4	2		
Execution time of basic instruction		3.8μs		Execution time of output instruction		5.04μs

Ordering Information



ES/EX Series Extension Unit

Model	Output method	Inputs	Outputs	Model name	Standard
Digital extension unit	-	8	-	DVP08XM11N	 
	Relay	-	8	DVP08XN11R	
	Transistor	-	8	DVP08XN11T	
	-	16	-	DVP16XM11N	
	Relay	-	16	DVP16XN11R	
	Transistor	-	16	DVP16XN11T	
	Relay	-	24	DVP24XN11R	
	Transistor	-	24	DVP24XN11T	
	Relay	4	4	DVP08XP11R	
	Transistor	4	4	DVP08XP11T	
	Relay	16	8	DVP24XP11R	
	Transistor	16	8	DVP24XP11T	
	Transistor	16	8	DVP24XP00R	
	Relay	-	24	DVP24XN00R	
	Transistor	-	24	DVP24XN00T	
	Relay	16	16	DVP32XP00R	
	Transistor	16	16	DVP32XP00T	
	Relay	16	16	DVP32XP11R	
	Transistor	16	16	DVP32XP11T	

S Series MPU

Model	Power supply	Output method	Inputs	Outputs	Model name	Standard
SS standard type	24VDC	Relay	8	6	DVP14SS11R2	 
	24VDC	Transistor	8	6	DVP14SS11T2	
SA advanced type	24VDC	Relay	8	4	DVP12SA11R	
	24VDC	Transistor	8	4	DVP12SA11T	
SX analog type	24VDC	Relay	6	4	DVP10SX11R	
		Analog	2	2		
	24VDC	Transistor	6	4	DVP10SX11T	
		Analog	2	2		
SC positioning type	24VDC	Transistor	8	4	DVP12SC11T	
Execution time of basic instruction		3.8μs		Execution time of output instruction		5.04μs
SV extension type	24VDC	Relay	16	12	DVP28SV11R	 
	24VDC	Transistor	16	12	DVP28SV11T	
	Built in with 4 axes of independent 200kHz pulse output					
Execution time of basic instruction		0.24μs		Execution time of output instruction		0.24μs

S Series Extension Unit/Module

Model	Output method	Inputs	Outputs	Model name	Standard
SS/SA/SX/SC/SV digital extension unit	Relay	-	6	DVP06SN11R	 
	Relay	-	8	DVP08SN11R	
	Transistor	-	8	DVP08SN11T	
	Relay	4	4	DVP08SP11R	
	Transistor	4	4	DVP08SP11T	
	-	8	-	DVP08SM11N	
	-	8	-	DVP08SM10N	
	Digital switch	8	-	DVP08ST11N	
	Relay	8	8	DVP16SP11R	

S Series Extension Unit/Module

Model	Output method	Inputs	Outputs	Model name	Standard
SS/SA/SX/SC/SV digital extension unit	Transistor	8	8	DVP16SP11T	 
	Transistor (PNP)	8	8	DVP16SP11TS	
	-	16	-	DVP16SM11N	
	Transistor (pin-headed)	-	32	DVP32SN11TN	
	Pin-headed	32	-	DVP32SM11N	
SS/SA/SX/SC/SV analog extension module	• 4 points of analog voltage (-10V~+10V)/current (-20mA~+20mA) input • Resolution: 14 bit • Photocoupler isolation • Built-in RS-485 interface			DVP04AD-S	
	• 4 points of analog voltage (0V~+10V)/current (0mA~+20mA) output • Resolution: 12 bit • Photocoupler isolation • Built-in RS-485 interface			DVP04DA-S	
	• 2 points of analog voltage (0V~+10V)/current (0mA~+20mA) output • Built-in RS-485 interface			DVP02DA-S	
	• 6 points of analog voltage (-10V~+10V)/current (-20mA~+20mA) input • Resolution: 14 bit • Photocoupler isolation • Built-in RS-485 interface			DVP06AD-S	
	• 2 points of analog voltage (-10V~+10V)/current (-20mA~+20mA) input • 2 points of analog voltage (0V~+10V)/current (0mA~+20mA) output • Resolution: 12 bit • No isolation • Built-in RS-485 interface			DVP06XA-S	
	• 4 points of platinum temperature sensor (PT100) input • Resolution: 0.1°C • Photocoupler isolation • Built-in RS-485 interface			DVP04PT-S	
	• 4 points of thermocouple temperature sensor (K, J type) input • Resolution: 0.1°C • Photocoupler isolation • Built-in RS-485 interface			DVP04TC-S	
	SS/SA/SX/SC/SV positioning module			Single-axis 200kHz servo positioning control	DVP01PU-S
	SS/SA/SX/SC/SV communication module			DeviceNet industrial network slave module	DVPDT01-S
				PROFIBUS DP industrial network slave module	DVPPF01-S
24VDC power supply module				100~240VAC power supply, 24VDC/1A output	DVPPS01
				100~240VAC power supply, 24VDC/2A output	DVPPS02
SV left-side high-speed extension module				Ethernet module, Modus TCP, 10/100Base TX	DVPEN01-SL
				DeviceNet master module, 500kbps	DVPDNET-SL
				CANopen master module, 1Mbps	DVPCOPM-SL
Remote I/O				DeviceNet remote I/O module, connectable to S series extension unit	RTU-DNET
				RS-485 remote I/O module, connectable to S series extension unit	RTU-485
				Ethernet remote I/O module, connectable to S series extension unit	RTU-EN01

PM Series MPU

Model	Power supply	Output method	Inputs	Outputs	Model name	Standard
Professional motion control MPU	100~240VAC	Differential	8	8	DVP20PM00D	 
		Built in with 2 axes of independent 500kHz pulse output				
Execution time of basic instruction		3.3μs		Execution time of output instruction		3.74μs

Ordering Information



Industrial Network Converter

Model	Detail	Model Name	Standard
Ethernet converter	Ethernet (Modbus TCP) to RS-232, RS-485 converter	IFD7505	 
Ethernet converter	Ethernet (Ethernet IP) to RS-232, RS-485 converter	IFD7506	
DeviceNet converter	CANopen to RS-232, RS-485 converter	IFD9502	
CANopen converter	DeviceNet to RS-232, RS-485 converter	IFD9503	
RS-232/RS-485, 422 converter	RS-232 to RS-422/485 isolated converter	IFD8500	
RS-485/RS-422 repeater	RS-232/RS-422/485 isolated repeater	IFD8510	
RS-232/RS-485, 422 converter	RS-232 to RS-422/485 isolated converter. The user can indicate the address.	IFD8520	

DIN Rail Power Supply

Model	Power supply	Input	Output	Model Name	Standard
CliQ series	1-phase	85~264VAC/ 120~375VDC	24V 60W	DRP024V060W1AZ (Plastic)	  GS, CSA
		85~264VAC/ 120~375VDC	24V 60W	DRP024V060W1AA (Aluminum)	  GS
		85~264VAC/ 120~375VDC	24V 120W	DRP024V120W1AA (Aluminum)	
		85~264VAC/ 120~375VDC	24V 240W	DRP024V240W1AA (Aluminum)	
		85~264VAC/ 120~375VDC	24V 480W	DRP024V480W1AA (Aluminum)	
	3-phase	320~575VAC/ 450~800VDC	24V 60W	DRP024V060W3AA (Aluminum)	
		320~575VAC/ 450~800VDC	24V 120W	DRP024V120W3AA (Aluminum)	
		320~575VAC/ 450~800VDC	24V 240W	DRP024V240W3AA (Aluminum)	
		320~575VAC/ 450~800VDC	24V 480W	DRP024V480W3AA (Aluminum)	
		320~575VAC/ 450~800VDC	24V 480W	DRP024V480W3AA (Aluminum)	

Accessories

Model	Detail	Model name	Standard
Peripherals & accessories	DVP series handheld programming panel	DVPHPP03	 
	Data back-up card (one is built-in in DVPHPP02)	DVP-256FM	
	Data back-up card	DVP-PCC01	
	Communication cable for DVPHPP03 and PLC, 1.5m	DVPACAB115	
	Communication cable for PC (9 Pin & 25 Pin D-Sub) and PLC, 1.5m	DVPACAB215	
	Communication cable for PC (9 Pin D-Sub) and PLC, 1.5m	DVPACAB2A30	
	Communication cable (9 Pin & 25 Pin D-Sub) and PLC, 3m	DVPACAB230	
	Connection cable for DVP32SM	DVPACAB7A10	
	Connection cable for DVP32SN	DVPACAB7B10	
	Drive board for DVP32SM (32 points of input)	DVPAETB-ID32A	
	Drive board for DVP32SN (16 points of output)	DVPAETB-OR16A	
	Communication cable for DVPHPP03 and PC, 1.5m	DVPACAB315	
	Supports 4 types of RS-485 connectors	ADP485-01	
	Communication cable for ADP485-01 and ASD-A, 30cm	ADPCAB03A	
	Communication cable for ADP485-01 and ASD-B, 30cm	ADPCAB03B	
	Extension cable for ES/EX series I/O extension unit, 30cm	DVPACAB403	
	Extension connector for EH series MPU and extension modules	DVPAEXT01-H	
	Extension cable for EH series MPU and extension modules, 0.9m	DVPACAB4A09	
	Extension cable for EH series MPU and extension modules, 1.8m	DVPACAB4A18	
	DeviceNet/CANopen distribution box, 1 for 2	TAP-CN01	
	DeviceNet/CANopen distribution box, 1 for 4	TAP-CN02	
	DeviceNet/CANopen distribution box, 1 for 4, RJ45 connector	TAP-CN03	
	3.6V Lithium battery (unchargeable) for EH/SA/SX series MPU	DVPABT01	

Software

Model	Detail
WPLSoft	Windows-based Editing Software for DVP series PLC on Windows 98, Me, NT4.0, 2000, XP, or Vista
PMSoft	Editing software for PM series MPU Programming Tool for PM series MPU (Windows 2000 / XP)
DeviceNetBuilder	DeviceNet configuration software
CANopenBuilder	CANopen configuration software
DMT	VB, VC DLL library for DVP series PLC

