

Specifications

Electrical Specifications

	AC	DC
Power Supply Voltage	100~240V _{AC} (-15%~10%), 50/60Hz ±5%	24V _{DC} (-15%~20%)
Fuse Capacity	2A/250V _{AC}	ES: 2A/250V _{AC} ; SV: 2.5A/30V _{DC}
Spike Voltage Durability	1500V _{AC} (Primary-secondary); 1500V _{AC} (Primary-PE); 500V _{AC} (Secondary-PE)	
Insulation Impedance	>5MΩ (all I/O point-to-ground: 500V _{DC})	
Noise Immunity	ESD: 8kV Air Discharge EFT: Power Line, 2kV Digital I/O: 1kV Analog & Communication I/O: 1kV RS: 26MHz~1GHz, 10V/m	
Earth	The diameter of grounding wire shall not be shorter than that of the power supply cable. (When many PLCs are in use at the same time, please make sure every PLC is properly grounded.)	
Storage/Operation	Storage: -25°C~70°C (temperature); 5%~95% (humidity) Operation: 0°C~55°C (temperature); 5%~95% (humidity); pollution degree 2	

Input Specifications^{*1}

Max. Input Frequency	10 kHz	20 kHz	100 kHz	200 kHz
Input Signal Type	NPN (Sink)/PNP (Source)			
Input Signal Voltage	24V _{DC} ±10% (5mA)			
Response time^{*2}	OFF→ON: 20μs ON→OFF: 50μs	ES/EX/SX/SS2/SX2 OFF→ON: 3.5μs ON→OFF: 20μs	ES2/EX2/SA2/SX2 OFF ON: 2.5μs ON→OFF: 5μs	EH3/SV2/PM OFF→ON: 0.15μs ON→OFF: 3μs

*1. For more detailed specifications, see the "Specification" section in the instruction sheet of each model.

*2. When the input point on PLC conducts only general input functions, use D1020 or D1021 to adjust the response time (default: 10ms).

Output Specifications^{*1}

	Relay-R	Transistor-T		
		General speed	High speed	
Max. Exchange (working) Frequency	1Hz ^{*2}	10 kHz	100 kHz	200 kHz
Current spec.	2A/1 Point	0.3A/point @40°C	SA2/SX2/ES2/EX2/SE	EH3/SV2/PM
			Resistive: 0.5A/point (4A/COM)	Resistive: 0.5A/point (4A/COM)
			Conductive: 12W (24V _{DC}) Light bulb: 2W (24V _{DC})	Conductive: 12W (24V _{DC}) Light bulb: 2W (24V _{DC})
	1.5A/1 Point			
Voltage Spec.	250V _{AC} /30V _{DC}		30V _{DC}	
Response Time	10ms	OFF→ON: 20μs ON→OFF: 30μs	OFF→ON: 2μs ON→OFF: 3μs	OFF→ON: 0.5μs ON→OFF: 2.5μs

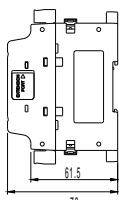
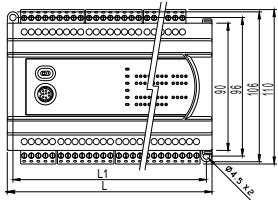
*1. For more detailed specifications, see the "Specification" section in the instruction sheet of each model.

*2. Relay life: Resistive load more than 200,000 times; conductive load more than 80,000 times.

Dimensions (unit: mm)

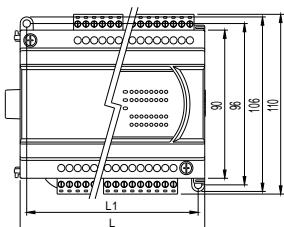
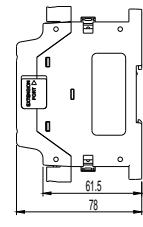
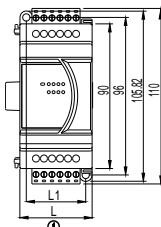
DVP-ES2/EX2 Series

Model Name (mm)	L	L1
DVP16ES200R/T	105	97
DVP20ES200RE	125	117
DVP20ES200TE	125	117
DVP24ES200R/T	125	117
DVP32ES200R/T	145	137
DVP32ES200RC	145	137
DVP32ES200TC	145	137
DVP32ES200RE	165	157
DVP32ES200TE	165	157
DVP32ES211T	145	137
DVP40ES200R/T	165	157
DVP40ES200RE	194	186
DVP40ES200TE	194	186
DVP60ES200R/T	225	217
DVP60ES200RE	255	247
DVP60ES200TE	255	247
DVP20EX200R/T	145	137
DVP30EX200R/T	165	157



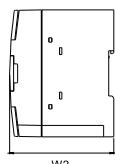
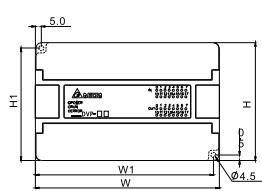
DVP-ES2/EX2 Series

Model Name (mm)	L	L1	Type
DVP08XM211N	45	37	①
DVP08XP211R/T	45	37	①
DVP08XN211R/T	45	37	①
DVP16XM211N	70	62	②
DVP16XP211R/T	70	62	②
DVP16XN211R/T	70	62	②
DVP24XP200R/T	145	137	②
DVP24XN200R/T	145	137	②
DVP32XP200R/T	145	137	②
DVP04AD-E2	70	62	②
DVP02DA-E2	70	62	②
DVP04DA-E2	70	62	②
DVP06XA-E2	70	62	②
DVP04PT-E2	70	62	②
DVP04TC-E2	70	62	②
DVP10RC-E2	70	62	②



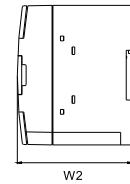
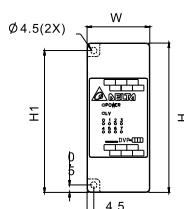
DVP-ES/EX Series

Model Name (mm)	H	H1	W	W1	W2
DVP14ES00R2/T2	100	95	104	99	82
DVP24ES00(11)R2/T2	100	95	155	150	82
DVP30ES00R2/T2	100	95	155	150	82
DVP32ES00R2/T2	100	95	155	150	82
DVP40ES00R2/T2	100	95	155	150	82
DVP60ES00R2/T2	90	85.5	185	180.5	89.6
DVP20EX00(11)R2/T2	100	95	155	150	82



DVP-ES2/EX2 Series Extension Modules

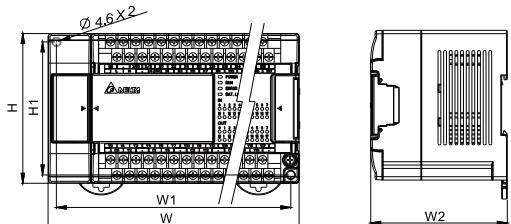
Model Name (mm)	H	H1	W	W1	W2
DVP08XM11N	100	95	42	37.5	82
DVP16XM11N	100	95	104	99	82
DVP08XN11R/T	100	95	42	37.5	82
DVP16XN11R/T	100	95	155	150	82
DVP24XN11R/T	100	95	155	150	82
DVP24XN00R/T	100	95	155	150	82
DVP08XP11R/T	100	95	42	37.5	82
DVP24XP11R/T	100	95	155	150	82



DVP-EH3 Series

Model Name (mm)	H	H1	W	W1	W2
DVP16EH00R3/T3	90	80	113	103	82
DVP20EH00R3/T3	90	80	113	103	82
DVP32EH00M3/MT	90	80	143.5	133.5	82
DVP32EH00R3/T3	90	80	143.5	133.5	82
DVP32EH00R3-L	90	80	143.5	133.5	82
DVP32EH00T3-L	90	80	143.5	133.5	82
DVP40EH00R3/T3	90	80	158.8	153.8	82
DVP48EH00R3/T3	90	80	174	164	82
DVP64EH00R3/T3	90	80	212	202	82
DVP80EH00R3/T3	90	80	276	266	82

*The dimensions of the DVP-EH3 and DVP-EH2 Series are the same.



DVP-EH3 Series I/O & Extension Modules

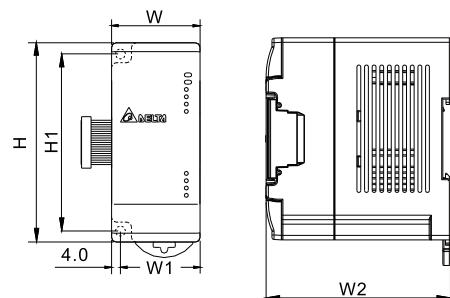
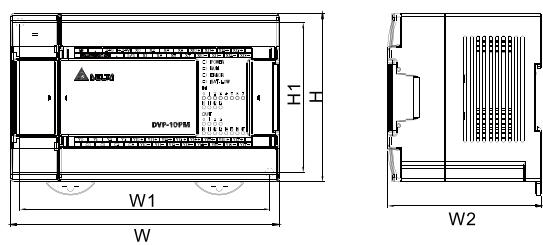
Model Name (mm)	H	H1	W	W1	W2
DVP08HM11N	90	80	40	36	82
DVP16HM11N	90	80	55	51	82
DVP32HM11N	90	80	143.5	133.5	82.2
DVP08HN11R/T	90	80	40	36	82
DVP32HN00R/T	90	80	143.5	133.5	82.2
DVP08HP11R/T	90	80	40	36	82
DVP16HP11R/T	90	80	55	51	82
DVP32HP00R/T	90	80	143.5	133.5	82.2
DVP48HP00R/T	90	80	174	164	82.2

Model Name (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	46	82
DVPCP02-H2	90	80	40	46	82
DVPPF02-H2	90	80	40	46	82
DVP04AD-H3	90	80	60	56	82
DVP04DA-H3	90	80	60	56	82
DVP06XA-H3	90	80	60	56	82

*The dimensions of the DVP-EH3 and DVP-EH2 Series are the same.

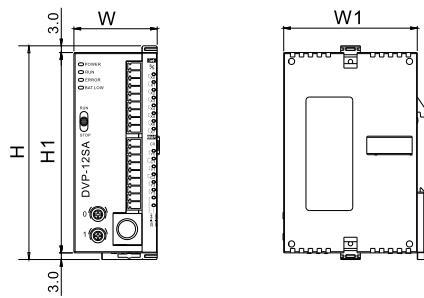
DVP-PM Series

Model Name (mm)	H	H1	W	W1	W2
DVP20PM00D	90	80	174	164	82
DVP20PM00M	90	80	174	164	82
DVP10PM00M	90	80	143.5	133.5	82



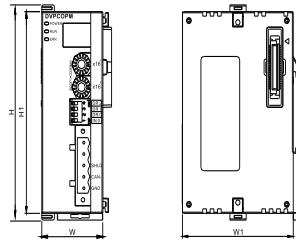
DVP-SE / SX / SS2 / SA2 Series

Model Name (mm)	H	H1	W	W1
DVP28SS211R/T	96	90	46	60
DVP28SA211R/T	96	90	46	60
DVP26SE11R/T	96	90	46	60
DVP14SS211R/T	96	90	25.2	60
DVP12SS211S	96	90	25.2	60
DVP12SA211R/T	96	90	37.4	60
DVP12SE11R/T	96	90	37.4	60
DVP10SX11R/T	96	90	37.4	60



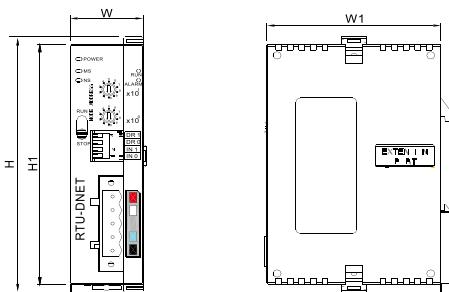
High-Speed Extension Modules (left-side)

Model Name (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
DVPPF02-SL	96	90	33.1	60
DVPSCM12-SL	96	90	33.1	60
DVPSCM52-SL	96	90	33.1	60
DVP04AD-SL	96	90	33.1	60
DVP04DA-SL	96	90	33.1	60
DVP01LC-SL	96	90	33.1	60
DVP02LC-SL	96	90	33.1	60
DVP201LC-SL	96	90	33.1	60
DVP202LC-SL	96	90	33.1	60
DVP211LC-SL	96	90	33.1	60



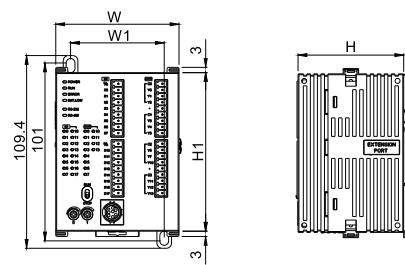
Remote I/O Modules

Model Name (mm)	H	H1	W	W1
RTU-DNET	96	90	25.2	60
RTU-485	96	90	25.2	60
RTU-EN01	96	90	25.2	60
RTU-PD01	96	90	25.2	60

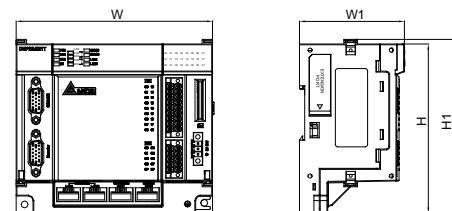


DVP-SV / SX2 / MC Series

Model Name (mm)	H	H1	W	W1
DVP28SV11R2/T2	60	90	70	53.2
DVP20SX211R/T/S	60	90	70	53.2
DVP10MC11T	60	90	70	53.2

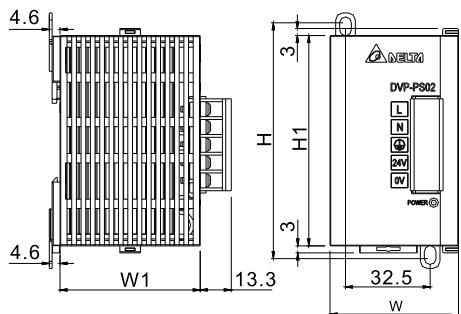


Model Name (mm)	H	H1	W	W1
DVP15MC11T	110	116.2	128	68.4



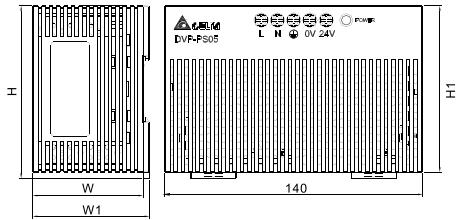
DVP-PS01/02 Power Supply Modules

Model Name (mm)	H	H1	W	W1
DVPPS01	100	90	36.5	60
DVPPS02	100	90	55	60

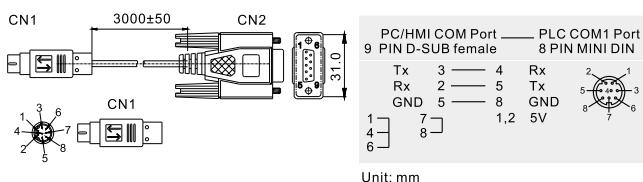


DVP-PS05 Power Supply Modules

Model Name (mm)	H	H1	W	W1
DVPPS05	93.3	90	60	63.4

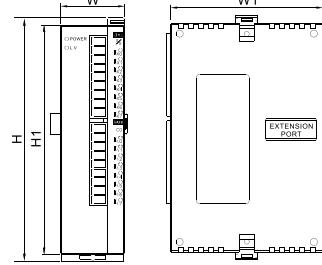


PIN Definition of UC-MS030-01A

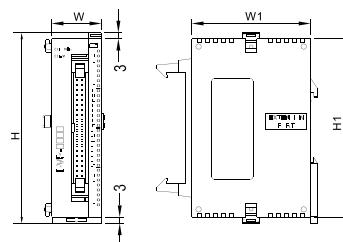


DVP-S Series I/O and Extension Modules

Model Name (mm)	H	H1	W	W1
DVP08SM11N	96	90	25.2	60
DVP06SN11R	96	90	25.2	60
DVP08SN11R/T/TS	96	90	25.2	60
DVP08SP11R/T/TS	96	90	25.2	60
DVP16SP11R/T/TS	96	90	25.2	60
DVP16SN11T	96	90	25.2	60
DVP16SN11TS	96	90	25.2	60
DVP04AD-S	96	90	25.2	60
DVP04AD-S2	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
DVP04DA-S2	96	90	25.2	60
DVP06XA-S	96	90	25.2	60
DVP06XA-S2	96	90	25.2	60
DVP04PT-S	96	90	25.2	60
DVP06PT-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
DVP02TUN-S	96	90	25.2	60
DVP02TUR-S	96	90	25.2	60
DVP02TUL-S	96	90	25.2	60



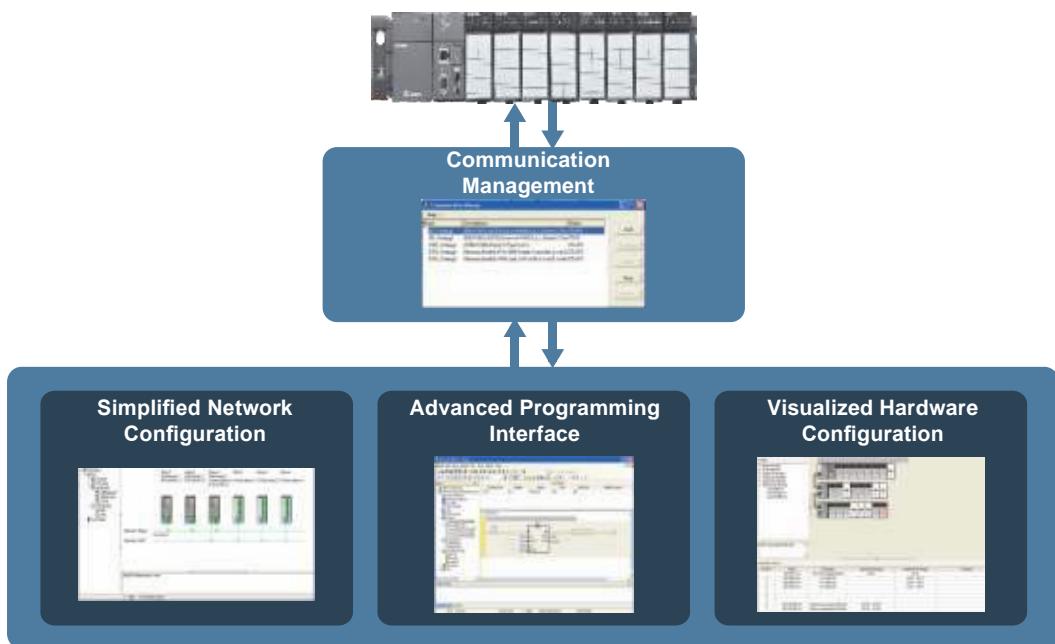
Model Name (mm)	H	H1	W	W1
DVP32SN11TN	96	90	25.2	60
DVP32SM11N	96	90	25.2	60



PLC Editing Software: ISPSoft V2.0

Highly Accessible Programming Software with Fully Integrated Interface

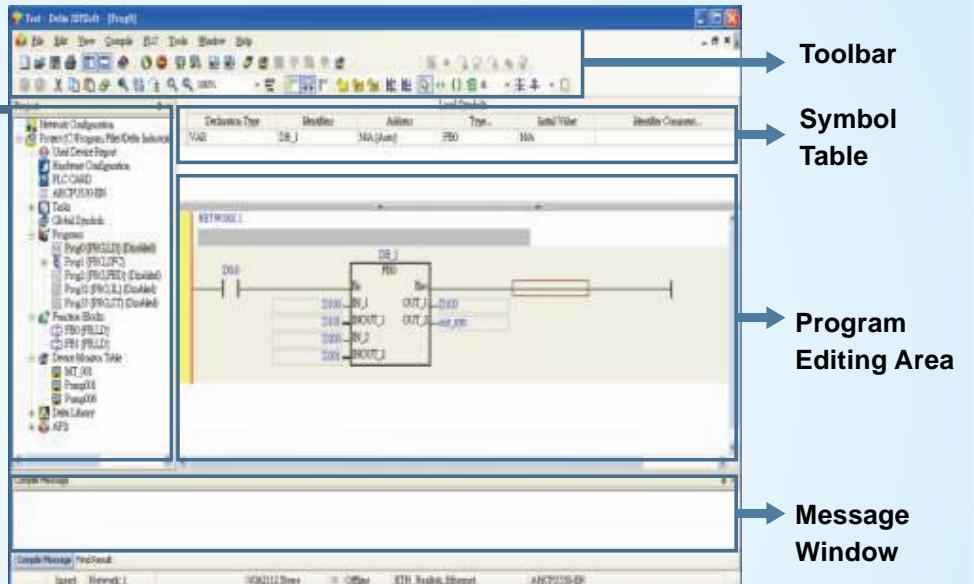
Advanced Programming Interface + Visualized Hardware Configuration + Simplified Network Configuration



Advanced Programming Interface

Project Management Window

- **New functions:** Network configuration (NWCONFIG), hardware configuration (HWCONFIG) and PLC card utility
- 5 programming languages for programs and function blocks (FB): LD / FBD / SFC / IL / ST
- **Function Blocks:** Symbols can be introduced in call-by-value or call-by-reference types. Function blocks can be called in a function block for up to 32 levels
- **Monitor Table:** It can be stored and managed separately. Multiple monitor tables can be stored in a single project
- **User Library:** Users can design frequently used instructions for specific applications in different industries
- **Task:** Supports cyclic, I/O interrupt, timer interrupt, external interrupt, and more. Software will provide the usable tasks for different CPUs
- Built-in Delta Function Blocks provide a convenient programming environment for operators



Visualized Hardware Configuration

Module Selection

Module Description

Toolbar

- System hardware configuration can be monitored in On-Line mode
- Hardware configuration can be displayed by Scan function

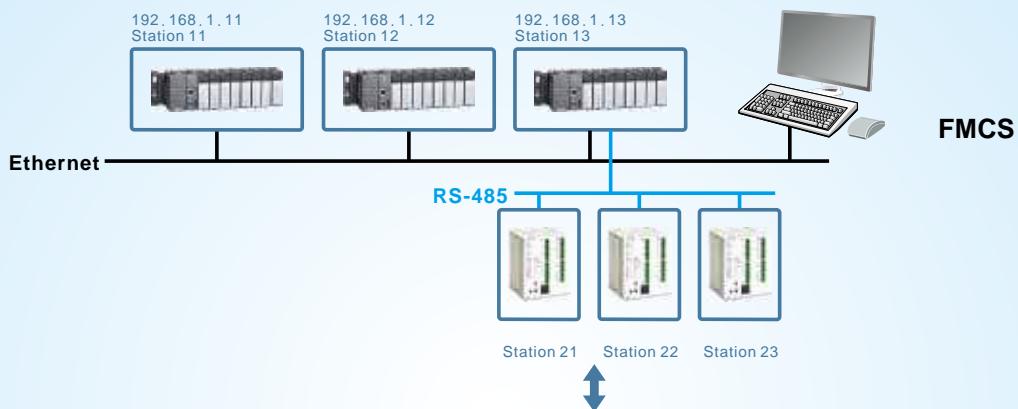
Hardware Configuration Area

- Operations of Cut/Copy/Paste/Delete are available for modules and racks
- Parameters of each module can be directly configured

Rack Information

- I/O device range can be specified by the user

Simplified Network Configuration



Network Device Selection

Ether Link

PLC Link

Toolbar

Network Configuration Area

- Master device settings
- Ether Link editing function
- PLC Link editing function

Network Information

Touch/Text Panel HMI with Built-in PLC TP Series

7-Inch Touch Panel HMI with Built-in PLC

TP70P-RM0

- ▶ Adopts the core of the DVP-SS2 Series PLC: program capacity: 2k steps / D device: 5k words
- ▶ 7" TFT-LCD
- ▶ Touch screen
- ▶ Built-in USB port for program upload/download
- ▶ Built-in RS-232 and RS-485 ports
- ▶ Supports MODBUS ASCII/RTU modes
- ▶ Built-in real time clock (RTC)

Dimensions	7" (154 x 85 mm)
Resolution	800 x 480
Display Color	65,535 colors
Flash Memory	64 M bytes
Function Key	Not available
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	RS-232 & RS-485
Editing Software	TPEditor

4-Line Text Panel HMI

TP04G-AL-C

TP04G-AL2

- ▶ 4.1" STN-LCD
- ▶ User-defined function keys available
- ▶ Supports RS-232/RS-422/RS-485 ports (TP04G-AL2)
- ▶ Password protection function available
- ▶ User-defined boot screen available
- ▶ Built-in real time clock (RTC)

Dimensions	4.1" (101.8 x 35.24 mm)
Resolution	192 x 64
Display Color	Monochrome
Flash Memory	256k bytes
Function Key	10 function keys
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	RS-232 & RS-422/485
Editing Software	TPEditor

4-Line Text Panel HMI

TP04G-BL-C

- ▶ 4.1" STN-LCD
- ▶ 0~9 numeric keys and user-defined function available
- ▶ Built-in RS-232 and RS-422/RS-485 ports
- ▶ Supports MODBUS ASCII/RTU modes
- ▶ Password protection function available
- ▶ User-defined boot screen available
- ▶ Built-in real time clock (RTC)

Dimensions	4.1" (101.8 x 35.24 mm)
Resolution	192 x 64
Display Color	Monochrome
Flash Memory	256k bytes
Function Key	17 function keys
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	RS-232 & RS-422/485
Editing Software	TPEditor

8-Line Text Panel HMI

TP08G-BT2

- ▶ 3.8" STN-LCD
- ▶ Resolution: 240x128 dots
- ▶ Built-in 1,024KB flash memory
- ▶ 24 user-defined function keys
- ▶ Built-in RS-232 and RS-422/RS-485 ports
- ▶ Supports recipes and macro functions

Dimensions	3.8" (83 x 41 mm)
Resolution	240 x 128
Display Color	Monochrome
Flash Memory	1 M bytes
Function Key	24 function keys
Password	Available
Recipe Function	Available
RTC	Available
Serial COM Port	RS-232 & RS-422/485
Editing Software	TPEditor

7-Inch Touch Panel HMI with Built-in PLC

TP70P

- ▶ Adopts the core of the DVP-SS2 Series PLC: program capacity: 4k steps / D device: 5k words
- ▶ Provides 2 sets of 10kHz high-speed pulse input
- ▶ 7" TFT-LCD
- ▶ Touch screen
- ▶ Built-in USB port for program upload/download
- ▶ Built-in RS-485 port*2
- ▶ Supports MODBUS ASCII/RTU modes
- ▶ Built-in real time clock (RTC)
- ▶ Digital and analog I/O terminals available

Dimensions	7" (154 x 85 mm)
Resolution	800 x 480
Display Color	65,535 colors
Flash Memory	64 M bytes
Function Key	Not available
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	2 sets of RS-485
Editing Software	TPEditor

4-Line Text Panel HMI with Built-in PLC

TP04P

- ▶ Adopts the core of the DVP-SS2 Series PLC: program capacity: 8k steps / D device: 5k words
- ▶ Provides 2 sets of 10kHz high-speed pulse input
- ▶ 4.1" STN-LCD
- ▶ Provides 0~9 numeric keys with user-defined function
- ▶ Built-in USB port for program upload/download
- ▶ Built-in RS-485 port*2
- ▶ Supports MODBUS ASCII/RTU modes
- ▶ User-defined boot screen available
- ▶ Built-in real time clock (RTC)
- ▶ Digital and analog I/O terminals available

Dimensions	4.1" (101.8 x 35.24 mm)
Resolution	192 x 64
Display Color	Monochrome
Flash Memory	1 M bytes
Function Key	17 function keys
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	2 sets for RS-485
Editing Software	TPEditor

Applications

Intelligent control systems for aquaculture, steel sleeve tapping machines, air compressors, plant factories



		Text Panel HMI						Text/Touch Panel HMI with Built-in PLC					
Model		TP02G-AS1	TP04G-AS2	TP08G-BT2	TP04G-AL-C	TP04G-AL2	TP04G-BL-C	TP04P-Series	TP70P-Series				
Display Specifications	Screen Type	STN-LCD						TFT-LCD					
	Display Color	Monochrome						65,535					
	Resolution	160 x 32	128 x 64	240 x 128	192 x 64			800 x 480					
	Backlight	Life span of backlight is about 50,000 hours at 25°C						20,000 hours					
	Display Range	72 x 22 mm	3" (67 x 32 mm)	3.8" (83 x 41 mm)	4.1" (101.8 x 35.24 mm)			7" (154 x 85 mm)					
Flash Memory		256k bytes		1M bytes	256k bytes			1M bytes	64M bytes				
Program Download Port		COM1 (RS-232)						COM1 (USB)	USB				
Serial COM Port	COM1	RS-232	RS-232/422		RS-232	RS-232/422	RS-232	-	-				
	COM2	RS-485			-	RS-422/485	RS-422/485	RS-485	TP70 with I/O: RS-485 TP70R-RM0: RS-232				
	COM3	-			-	-	-	RS-485					
Extension Interface		The slot for program copy card						-					
Real-time Clock		-	Built-in						-				
Auxiliary Keys	System Keys	6	7	12	5	7		-					
	Function Keys	10	5	12	5	10		-					
Operating Voltage		+24V _{DC} (-10% ~ +20%)						-					
Backup Battery		3V lithium battery CR2032 x 1/battery life: 5 years											
Buzzer		85 dB											
Cooling Method		Natural air circulation											
Operating Temperature		0 °C ~ 50 °C											
Storage Temperature		-20 °C ~ +60 °C											
Operating Humidity		10% ~ 90% RH (0 ~ 40 °C)											
Vibration		IEC 61131-2, IEC 68-2-6 (TEST Fc); 5 Hz ≤ f < 8.4 Hz Continuous: 3.5 mm; 8.4 Hz ≤ f ≤ 150 Hz Continuous: 1.0 g											
Shock		IEC 61131-2, IEC 68-2-27 (TEST Ea); 15g peak, 11ms duration, half-sine, three shocks in each direction per axis, on 3 mutually perpendicular axes (total of 18 shocks)											
Radiated Emission		CISPR11, Class A Frequency: 30 ~ 230 MHz, Limits: 40 dB uV/m Frequency: 230 MHz ~ 1 GHz, Limits: 47 dB uV/m											
Radiated Electromagnetic Field		EN61000-4-3, Frequency: 80 ~ 2000 MHz, Limits: 10V/m											
Electrostatic Discharge		EN61000-4-2, Air Discharge: 8 KV, Contact Discharge: 4 KV											
Fast Transient Burst		EN61000-4-4, Power Line: 1 KV, Communication I/O: 500 V											
Dimensions (Width (W) × Height (H) × Depth (D))		147 x 97 x 35.5	210 x 122 x 45	163.6 x 108.6 x 37		175.8 x 108.8 x 37	175.8 x 108.6 x 59.2	TP70 with I/O: 205.6 x 142.6 x 49 TP70R-RM0: 205.6 x 142.6 x 37					
Panel Cutout		136 x 85	196 x 108	151 x 96		163 x 96	163 x 96	191 x 128					
Weight		240g	430g	268g	270g	292g	500g	TP70 with I/O: 680g TP70R-RM0: 620g					
Safety Approvals (Waterproof Class of Front Panel)		IP65/NEMA4 & CE, UL Type 4 indoor		IP65/NEMA4 & CE, UL									
Editing Software		TPEditor V1.87											

Product Outline and Dimensions



DVP Series Model Name Instructions

• PLC	• DI/DO Module	• AI/AO Module
<p>Series ① ② ③ ④ ⑤</p>	<p>Series ① ② ③ ④ ⑤</p>	<p>Series ① ② ③</p>
1. Total I/O 2. Model ES/ES2: DVP-ES/ES2 series PLC EX/EX2: DVP-EX/EX2 series PLC SS/SS2: DVP-SS/SA/SX/SC/SV/SS2/SA/SA2: DVP-SA/SA2 series PLC SX/SX2: DVP-SX/SX2 series PLC SC: DVP-SC series PLC SV: DVP-SV series PLC SE: DVP-SE series PLC PM: DVP-PM series PLC MC: DVP-MC series PLC EH: DVP-EH series PLC EC: DVP-EC series PLC	1. Total I/O 2. Model X: DVP-ES/EX/ES2/EX2 series PLC S: DVP-SS/SA/SX/SC/SV/SS2/SA2/ SX2/SV2/SE/MC series PLC H: DVP-EH2/EH3/PM series PLC 3. I/O type M: Input point N: Output point P: Input + output 4. Power supply 00: AC power input 11: DC power input 5. Output type R: Relay T: Transistor (NPN) M: Mixed with differential signal S: Transistor (PNP) RC: Relay + CANopen TC: Transistor + CANopen RE: Relay + Ethernet TE: Transistor + Ethernet	1. Total I/O 2. Module function AD: Analog/digital conversion DA: Digital/analog conversion PT: PT type temperature module TC: Thermocouple type temperature Module XA: AD + DA module LC: Load cell module RC: Resolver module 3. Compatible model S or S2: DVP-SS/SA/SX/SC/SV/SS2/SA2/SX2/SV2/SE/MC Series PLC SL: left-side extension for DVP-S Series PLC E2: DVP-ES2/EX2 Series PLC
3. Power supply 00: AC power input 11: DC power input 4. Output type R: Relay T: Transistor (NPN) M: Mixed with differential signal S: Transistor (PNP) RC: Relay + CANopen TC: Transistor + CANopen RE: Relay + Ethernet TE: Transistor + Ethernet	3. Function Card	• Network Module
5. Version	<p>Series ① ② ③</p>	<p>Series ① ②</p>
• PI/PO Module	1. Function Card 2. Function 232: RS-232 card 422: RS-422 card 485: RS-485 card 2AD: 2ch analog input 2DA: 2ch analog output 3. Particular definition S: Slave mode (applicable to COM3 coding only)	1. Module function EN01: MODBUS TCP DNET: DeviceNet master COPM: CANopen master CP02: CANopen Slave DT01/02: DeviceNet Slave PF01/02: PROFIBUS DP Slave 2. Compatible model S: DVP-SS/SA/SX/SC/SV/SS2/SA2/SX2/SV2/SE/MC Series PLC H2/H3: DVP-EH2/EH3/PM Series PLC SL: left-side extension for DVP-S Series PLC
1. Total I/O 2. Module function HC: High-speed counter PU: Single-axis positioning module 3. Compatible model S: DVP-SS/SA/SX/SC/SV/SS2/SA2/SX2/SV2/SE/MC Series PLC H2/H3: DVP-EH2/EH3/PM Series PLC SL: left-side extension for DVP-S Series PLC	1. Accessory: Cable	1. Accessory 2. Accessory definition CAB: Cable 3. Type 1, 2, 3, 4, 4. Cable length 15: 1.5 m 30: 3.0 m
• Remote I/O	<p>Series ①</p>	1. Accessory 2. Accessory definition BT: Battery 3. Type: 01, 02

*For the availability of the product models, please contact Delta sales representatives or refer to "Ordering Information" in this catalogue.

DVP Series PLC Function Overview

Select your desired specifications and locate the most suitable PLC.



Item	Specifications	Check	Model							
			ES2	EX2	EH3	SS2	SA2	SX2	SV2	SE
Power Supply	AC	<input type="checkbox"/>	○	○	○					
	DC	<input type="checkbox"/>				○	○	○	○	○
I/O Points	< 256	<input type="checkbox"/>	△	△						
	< 512	<input type="checkbox"/>			△	△	△	△	△	△
Program Capacity	< 8 k	<input type="checkbox"/>				○				
	<16k	<input type="checkbox"/>	○	○			○	○		○
	< 32 k	<input type="checkbox"/>			○				○	
Output Type	Transistor (NPN)	<input type="checkbox"/>	○	○	○	○	○	○	○	○
	Transistor (PNP)	<input type="checkbox"/>				○	△	○	○	△
	Relay	<input type="checkbox"/>	○	○	○	○	○	○	○	○
	Differential signal	<input type="checkbox"/>			○					
Communication	3 COM ports (RS-232/485)	<input type="checkbox"/>	○	○	△		○	△	△	△
	Ethernet	<input type="checkbox"/>	○		△		△	△	△	○
	USB	<input type="checkbox"/>					○		○	
	DeviceNet	<input type="checkbox"/>			△ *1		△ *1	△ *1	△ *1	△ *1
	CANopen	<input type="checkbox"/>			△ *1		△ *1	△ *1	△ *1	△ *1
	PROFIBUS	<input type="checkbox"/>			△ *1		△ *1	△ *1	△ *1	△ *1
Positioning	2-axis output	<input type="checkbox"/>	○	○	○	○	○	○		○
	4-axis output	<input type="checkbox"/>			○				○	
	> 4 axes	<input type="checkbox"/>			△	△	△	△	△	△
	2-axis interpolation	<input type="checkbox"/>	○	○	○		○	○	○	○
	100 kHz high speed	<input type="checkbox"/>	○	○			○	○		○
	200 kHz high speed	<input type="checkbox"/>			○	△	△	△	○	△
High-speed Counting	≤ 2 channels	<input type="checkbox"/>	○	○		○	○	○		○
	≥ 3 channels	<input type="checkbox"/>			○ *3	△	△	△	○	△
	100 kHz high speed	<input type="checkbox"/>	○	○			○	○		○
	200 kHz high speed	<input type="checkbox"/>			○	△	△	△	○	△
Analog Function	< 4 channels (AD)	<input type="checkbox"/>	△	○	△	△	△	○	△	△
	< 2 channels (DA)	<input type="checkbox"/>	△	○ *2	△	△	△	○ *2	△	△

Note:

○ With such specification ○ Varies upon model △ With such specification when connected to extension module/function card

*1: Series that support left-side modules can support both master and slave; other series support only slave

*2: DVP-EX / SX2 Series have 4 channels of analog input and 2 channels of analog output

*3: In addition to the built-in 4 channels of high-speed counters, the DVP-EH3 Series can connect high-speed counter modules

Ordering Information

DVP-ES/EX Series PLC

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
DVP-ES Series Standard PLC	100~240V _{AC}	Relay	8	6	DVP14ES00R2	 
	100~240V _{AC}	Transistor	8	6	DVP14ES00T2	
	100~240V _{AC}	Relay	16	8	DVP24ES00R2	
	100~240V _{AC}	Transistor	16	8	DVP24ES00T2	
	100~240V _{AC}	Relay	18	12	DVP30ES00R2	
	100~240V _{AC}	Relay	16	16	DVP32ES00R2	
	100~240V _{AC}	Transistor	16	16	DVP32ES00T2	
	100~240V _{AC}	Relay	24	16	DVP40ES00R2	
	100~240V _{AC}	Transistor	24	16	DVP40ES00T2	
	100~240V _{AC}	Relay	36	24	DVP60ES00R2	
DVP-EX Series Analog PLC	100~240V _{AC}	Transistor	36	24	DVP60ES00T2	
	100~240V _{AC}	Relay	8	6	DVP20EX00R2	
	100~240V _{AC}	Analog	4	2		
	100~240V _{AC}	Transistor	8	6	DVP20EX00T2	
	100~240V _{AC}	Analog	4	2		

DVP-ES/EX Series Digital Module

Product Name	Output Method	Inputs	Outputs	Model Name	Certificates
Digital Module	-	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	
	Relay	16	16	DVP32XP11R	
	Transistor	16	16	DVP32XP11T	

DVP-EC3 Series PLC

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
DVP-EC3 Series Basic PLC	100~240V _{AC}	Relay	6	4	DVP10EC00R3	 
	100~240V _{AC}	Transistor	6	4	DVP10EC00T3	
	100~240V _{AC}	Relay	8	6	DVP14EC00R3	
	100~240V _{AC}	Transistor	8	6	DVP14EC00T3	
	100~240V _{AC}	Relay	8	8	DVP16EC00R3	
	100~240V _{AC}	Transistor	8	8	DVP16EC00T3	
	100~240V _{AC}	Relay	12	8	DVP20EC00R3	
	100~240V _{AC}	Transistor	12	8	DVP20EC00T3	
	100~240V _{AC}	Relay	12	12	DVP24EC00R3	
	100~240V _{AC}	Transistor	12	12	DVP24EC00T3	
	100~240V _{AC}	Relay	18	12	DVP30EC00R3	
	100~240V _{AC}	Transistor	18	12	DVP30EC00T3	

DVP-EC3 Series PLC

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
DVP-EC3 Series Basic PLC	100~240V _{AC}	Relay	16	16	DVP32EC00R3	 
	100~240V _{AC}	Transistor	16	16	DVP32EC00T3	
	100~240V _{AC}	Relay	24	16	DVP40EC00R3	
	100~240V _{AC}	Transistor	24	16	DVP40EC00T3	
	100~240V _{AC}	Relay	28	20	DVP48EC00R3	
	100~240V _{AC}	Transistor	28	20	DVP48EC00T3	
	100~240V _{AC}	Relay	36	24	DVP60EC00R3	
	100~240V _{AC}	Transistor	36	24	DVP60EC00T3	
Fastest execution time of basic instructions		3.8 μs	Execution time of MOV instruction		5.04 μs	

DVP-ES2/EX2 Series PLC

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
DVP-ES2 Series Standard PLC	100~240V _{AC}	Relay	8	8	DVP16ES200R	 
	100~240V _{AC}	Transistor	8	8	DVP16ES200T	
	100~240V _{AC}	Relay	16	8	DVP24ES200R	
	100~240V _{AC}	Transistor	16	8	DVP24ES200T	
	100~240V _{AC}	Relay	16	16	DVP32ES200R	
	100~240V _{AC}	Transistor	16	16	DVP32ES200T	
	24V _{DC}	Transistor	16	16	DVP32ES211T	
	100~240V _{AC}	Relay	24	16	DVP40ES200R	
	100~240V _{AC}	Transistor	24	16	DVP40ES200T	
	100~240V _{AC}	Relay	36	24	DVP60ES200R	
	100~240V _{AC}	Transistor	36	24	DVP60ES200T	
	100~240V _{AC}	Relay	16	16	DVP32ES200RC	
DVP-ES2 Series Standard PLC with Built-in CANopen	100~240V _{AC}	Transistor	16	16	DVP32ES200TC	 
	100~240V _{AC}	Relay	12	8	DVP20ES200RE	
New DVP-ES2 Series Standard PLC with Ethernet Communication	100~240V _{AC}	Transistor	12	8	DVP20ES200TE	
	100~240V _{AC}	Relay	16	16	DVP32ES200RE	
	100~240V _{AC}	Transistor	16	16	DVP32ES200TE	
	100~240V _{AC}	Relay	24	16	DVP40ES200RE	
	100~240V _{AC}	Transistor	24	16	DVP40ES200TE	
	100~240V _{AC}	Relay	36	24	DVP60ES200RE	
	100~240V _{AC}	Transistor	36	24	DVP60ES200TE	
	100~240V _{AC}	Relay	8	6	DVP20EX200R	
DVP-EX2 Series Analog PLC	100~240V _{AC}	Analog	4	2	DVP20EX200T	
	100~240V _{AC}	Transistor	8	6	DVP30EX200R	 
DVP-EX2 Series Temperature/Analog PLC	100~240V _{AC}	Analog	4	2	DVP30EX200T	
	100~240V _{AC}	Relay	16	10	DVP30EX200R	
	100~240V _{AC}	Analog	3	1	DVP30EX200T	
	100~240V _{AC}	Transistor	16	10	DVP30EX200T	
Fastest execution time of basic instructions		0.35 μs	Execution time of MOV instruction		3.4 μs	

*1: Built-in SD card slot

DVP-ES2/EX2 Series Digital I/O Module (AC power supply)

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
Digital Module	100~240V _{AC}	Relay	-	24	DVP24XN200R	 
	100~240V _{AC}	Transistor	-	24	DVP24XN200T	
	100~240V _{AC}	Relay	16	8	DVP24XP200R	
	100~240V _{AC}	Transistor	16	8	DVP24XP200T	
	100~240V _{AC}	Relay	16	16	DVP32XP200R	
	100~240V _{AC}	Transistor	16	16	DVP32XP200T	

Ordering Information

DVP-ES2/EX2 Series Digital/Analog Module (24V_{DC})

Product Name	Output Method	Inputs	Outputs	Model Name	Certificates	
Digital Module	-	8	-	DVP08XM211N	 	
	Relay	-	8	DVP08XN211R		
	Transistor	-	8	DVP08XN211T		
	Relay	4	4	DVP08XP211R		
	Transistor	4	4	DVP08XP211T		
	-	16	-	DVP16XM211N		
	Relay	-	16	DVP16XN211R		
	Transistor	-	16	DVP16XN211T		
	Relay	8	8	DVP16XP211R		
	Transistor	8	8	DVP16XP211T		
Analog I/O Module	• 4 points of analog voltage (10V, 5V)/current (20mA, 0~20mA, 4~20mA) input ^{**}				 	
	• Resolution: 14-bit (-32,000~+32,000)					
	• 4 points of analog voltage (-10V~+10V)/current (0~20mA, 4~20mA) output ^{**}					
	• Resolution: 14-bit (-32,000~+32,000)/(0~+32,000)					
	• 2 points of analog voltage (-10V~+10V)/current (0~20mA, 4~20mA) output ^{**}					
	• Resolution: 14-bit (-32,000~+32,000)/(0~+32,000)					
Temperature Measurement Module	• 4 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input/0~300Ω resistance input ^{**}				 	
	• Resolution: 16-bit					
	• With PID temperature control					
Absolute Resolver Module	• 4 points of thermocouple (J, K, R, S, T, E, N Type) sensor input/-80mV~+80mV voltage input ^{**}				 	
	• Resolution: 20-bit					
	• With PID temperature control					
• Converts 1 set of resolver input signal (angle/speed) into digital signals					DVP10RC-E2	
• Resolution: 12-bit						
• Supports disconnection detection for distance up to 50m						

*1. Digital/analog photocoupler isolation. No isolation among channels.

DVP-EH3 Series PLC

Product name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
DVP-EH3 Series High Performance PLC	100~240V _{AC}	Relay	8	8	DVP16EH00R3	 
	100~240V _{AC}	Transistor	8	8	DVP16EH00T3	
	100~240V _{AC}	Relay	12	8	DVP20EH00R3	
	100~240V _{AC}	Transistor	12	8	DVP20EH00T3	
	100~240V _{AC}	Transistor	16	16	DVP32EH00T3	
	100~240V _{AC}	Relay	16	16	DVP32EH00R3	
	100~240V _{AC}	Differential + Relay	16	16	DVP32EH00M3	
	100~240V _{AC}	Differential + Transistor	16	16	DVP32EH00MT New	
	100~240V _{AC}	Relay	16	16	DVP32EH00R3-L	
	100~240V _{AC}	Transistor	16	16	DVP32EH00T3-L	
	100~240V _{AC}	Transistor	24	16	DVP40EH00T3	
	100~240V _{AC}	Relay	24	16	DVP40EH00R3	
	100~240V _{AC}	Relay	24	24	DVP48EH00R3	
	100~240V _{AC}	Transistor	24	24	DVP48EH00T3	
	100~240V _{AC}	Relay	32	32	DVP64EH00R3	
	100~240V _{AC}	Transistor	32	32	DVP64EH00T3	
	100~240V _{AC}	Relay	40	40	DVP80EH00R3	
	100~240V _{AC}	Transistor	40	40	DVP80EH00T3	
Execution time of basic instructions				0.24 µs		

DVP-EH3 Series Digital/Analog Module

Product Name	Output Method	Inputs	Outputs	Model Name	Certificates
Digital Module	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	
	-	32	-	DVP32HM11N	
	Relay	-	32	DVP32HN00R	
	Transistor	-	32	DVP32HN00T	
	Relay	16	16	DVP32HP00R	
	Transistor	16	16	DVP32HP00T	
	Relay	24	24	DVP48HP00R	
	Transistor	24	24	DVP48HP00T	
Analog Module	<ul style="list-style-type: none"> 4 points of analog voltage (-10V ~ +10V) / current (-20mA ~ +20mA)¹⁾ Input resolution: 14-bit Built-in RS-485 interface 				DVP04AD-H2
	<ul style="list-style-type: none"> 4 points of analog voltage (0V ~ +10V) / current (0mA ~ +20mA) output¹⁾ Resolution: 12-bit Built-in RS-485 interface 				DVP04DA-H2
	<ul style="list-style-type: none"> 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 Built-in RS-485 interface 				DVP06XA-H2
	<ul style="list-style-type: none"> 4 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input¹⁾ / 0 ~ 300Ω or 0 ~ 3000Ω resistance input Resolution: 0.1°C Built-in RS-485 interface 				DVP04PT-H2
	<ul style="list-style-type: none"> 4 points of thermocouple (J, K, R, S, T, E, N Type) sensor input¹⁾ / 0 ~ 150mV voltage input Resolution: 0.1°C Built-in RS-485 interface 				DVP04TC-H2
	<ul style="list-style-type: none"> 8 points of thermocouple (J, K, R, S, T, E, N Type) sensor input¹⁾ / 0 ~ 150mV or ±150mV voltage input Resolution: 0.1°C Built-in RS-485 interface 				DVP08TC-H2
	<ul style="list-style-type: none"> 4 channels of differential voltage (-10V ~ +10V) / current (-20mA ~ +20mA) input Resolution: 16-bit Built-in RS-485 interface 				DVP04AD-H3
	<ul style="list-style-type: none"> 4 channels of voltage (-10V ~ +10V) / current (0 ~ +20mA) output Resolution: 16-bit Built-in RS-485 interface 				DVP04DA-H3
	<ul style="list-style-type: none"> 4 channels of differential voltage (-10V ~ +10V) / current (-20mA ~ +20mA) input 2 channels of voltage (-10V ~ +10V) / current (0 ~ +20mA) output Resolution: 16-bit Built-in RS-485 interface 				DVP06XA-H3

*1. Digital/analog photocoupler isolation. No isolation among channels.

DVP-EH3 Series Extension Module/Function Card

Product Name	Description	Model Name	Certificates
Positioning Module	Servo position control module (single axis, 200 kHz)	DVP01PU-H2	 
High-Speed Counter	High-speed counter module (1CH)	DVP01HC-H2	
Communication Module	PROFIBUS DP slave communication module	DVPPF02-H2	
	CANopen slave communication module	DVPCP02-H2	
	DeviceNet slave communication module	DVPDT02-H2	
Function Card	RS-232 port conversion (DVP-EH2: COM2; DVP-EH3: COM3)	DVP-F232	 
	RS-422 port conversion (DVP-EH2: COM2; DVP-EH3: COM3)	DVP-F422	
	RS-485 port extension (COM3) (DVP-EH3 only)	DVP-F485	
	• 2 points of analog voltage (0 ~ 10V) / current (0 ~ 20mA) input • Resolution: 12-bit	DVP-F2AD	
	• 2 points of analog voltage (0 ~ 10V) / current (0 ~ 20mA) output • Resolution: 12-bit	DVP-F2DA	
	Ethernet communication card (compatible with controllers built-in with 32 I/O and above)	DVP-FEN01	

Ordering Information

DVP-S Series PLC

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
DVP-SV2 Series Functional Slim PLC	24Vdc	Relay	16	12	DVP28SV11R2 New	
	24Vdc	Transistor	16	12	DVP28SV11T2 New	
	24Vdc	Transistor (PNP)	16	12	DVP28SV11S2	
	24Vdc	Transistor	10 (2AI)	12	DVP24SV11T2	
Execution time of basic instructions			0.24 µs			
DVP-SS2 Series Standard Slim PLC	24Vdc	Relay	16	12	DVP28SS211R New	
	24Vdc	Transistor	16	12	DVP28SS211T New	
	24Vdc	Relay	8	6	DVP14SS211R	
	24Vdc	Transistor	8	6	DVP14SS211T	
	24Vdc	Transistor(PNP)	8	4	DVP12SS211S	
DVP-SA2 Series Advanced Slim PLC	24Vdc	Relay	16	12	DVP28SA211R	
	24Vdc	Transistor	16	12	DVP28SA211T	
	24Vdc	Relay	8	4	DVP12SA211R	
	24Vdc	Transistor	8	4	DVP12SA211T	
DVP-SX2 Series Analog Slim PLC	24Vdc	Relay	8 (4AI)	6 (2AO)	DVP20SX211R	
	24Vdc	Transistor	8 (4AI)	6 (2AO)	DVP20SX211T	
	24Vdc	Transistor (PNP)	8 (4AI)	6 (2AO)	DVP20SX211S	
Fastest execution time of basic instructions		0.35 µs	Execution time of MOV instruction		3.4 µs	
DVP-SE Series Network Type Slim PLC	24Vdc	Relay	14	12	DVP26SE11R New	
	24Vdc	Transistor	14	12	DVP26SE11T New	
	24Vdc	Relay	8	4	DVP12SE11R	
	24Vdc	Transistor	8	4	DVP12SE11T	
Fastest execution time of basic instructions		0.64 µs	Execution time of MOV instruction		2 µs	
DVP-SX Series Analog Slim PLC	24Vdc	Relay	4 (2AI)	2 (2AO)	DVP10SX11R	
	24Vdc	Transistor	4 (2AI)	2 (2AO)	DVP10SX11T	
Fastest execution time of basic instructions		3.8 µs	Execution time of MOV instruction		5.04 µs	

DVP-S Series Digital/Analog Module

Product name	Output Method	Inputs	Outputs	Model Name	Certificates
Digital Module	Relay	-	6	DVP06SN11R	
	Relay	-	8	DVP08SN11R	
	Transistor	-	8	DVP08SN11T	
	Transistor	-	16	DVP16SN11T	
	Relay	4	4	DVP08SP11R	
	Transistor	4	4	DVP08SP11T	
	-	8	-	DVP08SM11N	
	-	8	-	DVP08SM10N	
	Transistor (PNP)	-	8	DVP08SN11TS	
	Digital switch	8	-	DVP08ST11N	
	Relay	8	8	DVP16SP11R	
	Transistor (PNP)	4	4	DVP08SP11TS	
	Transistor (NPN)	8	8	DVP16SP11T	
	Transistor (PNP)	8	8	DVP16SP11TS	
	Transistor (PNP)	-	16	DVP16SN11TS	
	-	16	-	DVP16SM11N	
	Transistor, MIL	-	32	DVP32SN11TN	
	MIL	32	-	DVP32SM11N	
Product Name	Description			Model Name	Certificates
Analog I/O Module	▪ 4 points of analog input voltage (-10V~+10V)/ current (-20 mA~+20 mA) ▪ Input resolution: 14-bit	▪ Built-in RS-485 interface ▪ Differential input			DVP04AD-S2
	▪ 4 points of analog output voltage (0V~+10V)/ current (0 mA~+20 mA)	▪ Output resolution: 12-bit ▪ Built-in RS-485 interface			DVP04DA-S2
	▪ Analog input+output module (6 points) ▪ 4 points of analog input voltage (-10V~+10V)/ current (-20 mA~+20 mA)	▪ Input/output resolution: 12-bit ▪ Built-in RS-485 interface ▪ Differential input			DVP06XA-S2
	▪ 2 points of analog output voltage (0V~+10V)/ current (0 mA~+20 mA)				

DVP-S Series Analog Module

Product Name	Description	Model Name	Certificates
Analog I/O Module	▪ 4 points of analog input voltage (-10V~+10V)/ current (-20mA~+20mA) ▪ Input resolution: 14-bit	▪ Built-in RS-485 interface ▪ Single-ended input	DVP04AD-S
	▪ 4 points of analog output voltage (0V~+10V)/ current (0mA~+20mA) ▪ Output resolution: 12-bit	▪ Built-in RS-485 interface	DVP04DA-S
	▪ 2 points of analog output voltage (0V~+10V)/ current (0mA~+20mA) ▪ Output resolution: 12-bit	▪ Built-in RS-485 interface	DVP02DA-S
	▪ 6 points of analog input voltage (-10V~+10V)/ current (-20mA~+20mA) ▪ Input resolution: 14-bit	▪ Built-in RS-485 interface	DVP06AD-S
	▪ Analog input+output modules (6 points) ▪ 4 points of analog input voltage (-10V~+10V)/current (-20mA~+20mA) ▪ 2 points of analog output voltage (0V~+10V)/current (0mA~+20mA)	▪ Input/output resolution: 12-bit ▪ Built-in RS-485 interface ▪ Single-ended input	DVP06XA-S

DVP-S Series Extension Module/High-Speed Module (Left-side)

Product Name	Description		Model Name	Certificates
High-Speed Analog I/O Module (Left-side)	▪ 4 groups of analog input *1 ▪ Signal range: 1~5V, 0~5V, -5~5V, 0~10V, -10~10V, 4~20mA, 0~20mA, -20~20mA ▪ Resolution: 16-bit ▪ Single channel On/Off setup enhances entire conversion efficiency ▪ Conversion time: 250µs/point ▪ Off-line alarm (1~5V, 4~20mA)		DVP04AD-SL	
	▪ 4 groups of analog output *1 ▪ Signal range: 0~10V, -10~10V, 4~20mA, 0~20mA ▪ Resolution: 16-bit ▪ Offers single channel On/Off setup ▪ Conversion time: 250µs/point		DVP04DA-SL	
High-Speed Load Cell Module (Left-side)	▪ 1 set of load cell module *1 ▪ Resolution: 24-bit	▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~80mV/V	DVP201LC-SL	
	▪ 1 set of load cell module *1 ▪ Resolution: 24-bit ▪ Connectable to 4-wire/6-wire load cell sensor	▪ Measurable range: 0~80mV/V ▪ Built-in I/O control: 2DI/4DO/1AO	DVP211LC-SL	
	▪ 2 sets of load cell module *1 ▪ Resolution: 24-bit	▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~80mV/V	DVP202LC-SL	
	▪ Supports 2 channels of load cell signal input *1 ▪ Resolution: 20-bit ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~6mV/V		DVP02LC-SL	
	▪ Supports 1 channel of load cell signal input *1 ▪ Resolution: 20-bit ▪ Connectable to 4-wire/6-wire load cell sensor ▪ Measurable range: 0~6mV/V		DVP01LC-SL	
	▪ 6 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input ▪ Resolution: 0.1°C		DVP06PT-S	
Temperature Measurement Module	▪ 4 points of platinum RTD (Pt100, Pt1000, Ni100, Ni1000) sensor input *1 (Version 4.06 and above supports Pt1000, Ni100, Ni1000) ▪ Resolution: 0.1°C ▪ Built-in RS-485 interface		DVP04PT-S	
	▪ 4 points of thermocouple (J, K, R, S, T type) sensor input *1 ▪ Resolution: 0.1°C ▪ Built-in RS-485 interface		DVP04TC-S	
	▪ 2 points of universal analog input: 0~10V, 0~20mA, 4~20mA; Thermocouple: J, K, R, S, T, E, N, B, C, L, U, TXK, PLII; RTD: Pt100, JPt100, Pt1000, Cu50, Cu100, Ni100, Ni1000, LG-Ni1000 ▪ Resolution: analog 16-bit; Sensor: 0.1°C		New DVP02TUN-S	
	▪ 4 points of NPN transistor output: 24V _{dc} /300mA ▪ Output point: built-in PID program control/manual control			
	▪ 2 points of universal analog input: 0~10V, 0~20mA, 4~20mA; Thermocouple: J, K, R, S, T, E, N, B, C, L, U, TXK, PLII; RTD: Pt100, JPt100, Pt1000, Cu50, Cu100, Ni100, Ni1000, LG-Ni1000 ▪ Resolution: analog 16-bit; Sensor: 0.1°C		New DVP02TUR-S	
	▪ 4 points of relay output: 24V _{dc} /3A ▪ Output point: built-in PID program control/manual control			
	▪ 2 points of universal analog input: 0~10V, 0~20mA, 4~20mA; Thermocouple: J, K, R, S, T, E, N, B, C, L, U, TXK, PLII; RTD: Pt100, JPt100, Pt1000, Cu50, Cu100, Ni100, Ni1000, LG-Ni1000 ▪ Resolution: analog 16-bit; Sensor: 0.1°C		New DVP02TUL-S	
	▪ 2 points of analog output: 0~10V, 0~20mA, 4~20mA ▪ Output point: built-in PID program control/manual control			

*1. Digital/analog photocoupler isolation. No isolation among channels.

Ordering Information

DVP-S Series Extension Module/High-Speed Module (Left-side)

Product Name	Description	Model Name	Certificates
Positioning Module	Servo position control module (single axis, 200 kHz)	DVP01PU-S	
Communication Module	DeviceNet slave communication module	DVPDT01-S	
	PROFIBUS DP slave communication module	DVPPF01-S	
Left-Side High-Speed Communication Module	Ethernet communication module, 10/100 Mbps	DVPEN01-SL	
	DeviceNet master communication module, 500 Kbps	DVPDNET-SL	
	CANopen master communication module, 1 Mbps	DVPCOPM-SL	
	PROFIBUS DP slave communication module , 12 Mbps	DVPPF02-SL	
	RS-485/RS-422, serial communication module, 460 Kbps	DVPSCM12-SL	
	BACnet MS/TP Slave communication module, 460 Kbps	DVPSCM52-SL	
Remote I/O Module	RS-485 remote I/O module, connectable to DVP-S series I/O modules	RTU-485	
	Ethernet remote I/O module, connectable to DVP-S series I/O modules	RTU-EN01	
	DeviceNet remote I/O module, connectable to DVP-S series I/O modules	RTU-DNET	
	PROFIBUS remote I/O module, connectable to DVP-S series I/O modules	RTU-PD01	

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-A	
	RS-485 to RS-422 isolated repeater	IFD8510-A	
	RS-422/485 to RS-232 addressable isolated converter	IFD8520	

DVP-PM Series

Product Name	Power Supply	Output Method	Inputs	Outputs	Model Name	Certificates
Standard Motion Controller	100~240V _{AC}	Differential	16	16	DVP10PM00M	
		(Built-in 4-axis of independent 1MHz pulse output)				
Advanced Motion Controller	100~240V _{AC}	Differential	8	8	DVP20PM00DT	
		(Built-in 2-axis of independent 500 kHz pulse output)			DVP20PM00D	
		(Built-in 3-axis of independent 500 kHz pulse output)			DVP20PM00M	
Extension Module	Description				Model Name	
DVP-PM communication card	Ethernet/CANopen communication card				DVP-FPMC	
Execution time of basic instructions	0.13 μs		Execution time of MOV instruction		3.74 μs	

DVP-MC Series

Product Name	Power Supply	Communication Protocol	Axes Controlled	Inputs	Outputs	Model Name	Certificates
Multi-axis Motion Controller	24V _{DC}	CANopen DS402	16	8	4	DVP10MC11T	
			24	16	8	New DVP15MC11T	

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	CE
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-22XA1R 8DI 8DO 2AI 1AO 2PT Relay TP04P-21EX1R	
TP70P	Resolution: 800 x 400 Serial COM ports: USB & RS-485	8DI 8DO - - - Relay TP70P-16TP1R 16DI 16DO - - - Relay TP70P-32TP1R 8DI 8DO 4AI 2AO - Relay TP70P-22XA1R 8DI 8DO 2AI 1AO 2PT Relay TP70P-21EX1R	CE
TP08	Resolution: 240 x 128, Serial COM ports: RS-232 & RS-422/RS-485, 0 ~ 9 numeric keys available	TP08G-BT2	

Software

Product Name	Description	OS (Windows based software)
ISPSofT	PLC editing software for DVP and AH500 Series (supports 5 programming languages: LD, FBD, SFC, ST, IL)	Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit)
WPLSoft	Programming software for DVP Series	Windows 98, Me, NT4.0, 2000, XP, Vista, Windows 7 (32-bit/64-bit)
TPEditor	Editing software for TP Series	Windows 98, Me, NT4.0, 2000, XP, Vista, Windows 7 (32-bit/64-bit)
PMSoft	Programming software for DVP-PM series	Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit)
DCISoft	Delta communication integration software	Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit)
DeviceNet Builder	DeviceNet configuration software	Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit)
CANopen Builder	CANopen configuration software	Windows 2000, XP, Vista, Windows 7 (32-bit/64-bit)
NetView Builder	CAN bus message analysis software	Windows 2000, XP, Vista, Windows 7 (32-bit)

Starter Kit

Product Name	Model Name	Contents
New Delta PLC Starter Kit	UT-14SS2-A	DVP14SS211R (PLC), DOP-B07S410 (HMI) and accessory
	UT-12SE-A1	DVP12SE11R (PLC), DOP-B07E411 (HMI) and accessory

Industrial Power Supply

Series	Power Supply	Inputs	Outputs	Power	Output Current	Model Name	Certificates
DVP	1-phase	85~264V _{AC}	24V _{DC}	24W	1A	DVPPS01	
				48W	2A	DVPPS02	CE
				120W	5A	DVPPS05	UL

*Note: For more ordering information, please refer to the catalogue for Delta Industrial Power Supply.

Ordering Information

Accessories

Type	Model name	Description	Specification		Applicable Modules
			Length	Connector / Terminal block	
PLC Programming and Serial Communication Cable	UC-PRG015-01A	Communication cable for PLC (mini USB) to PC	1.5m	PC (USB ↔ mini USB) PLC	DVP-SE/DVP-SX2/AH500
	UC-PRG015-02A	Communication cable for TP (USB B type) to PC	1.5m	PC (USB ↔ USB B type) TP	TP70P/TP04P / DOP
	UC-PRG020-12A	Communication cable for PLC (DB9 female / 8-pin mini-DIN male) to PC	2m	PC (DB9 female ↔ 8-pin mini-DIN male) PLC	DVP/TP RS-232
	UC-PRG030-01A	Communication cable for PLC (mini USB) to PC	3m	PC (USB ↔ mini USB) PLC	DVP-SE/SX2 AH500
	UC-PRG030-02A	Communication cable for TP (USB B type) to PC	3m	PC (USB ↔ USB B type) TP	TP70P / TP04P / DOP
	UC-PRG030-10A	Communication cable for PLC / HMI / TP (DB9 female) to PC	3m	PC (DB9 female ↔ DB9 female) PLC/HMI/TP	PLC/HMI/TP (DB9 female)
	UC-PRG030-20A	Communication cable for PLC / HMI (RJ45) to PC	3m	PC (RJ45 ↔ RJ45) PLC/HMI	DVP-SE DVPEN02-L AHCPU5 □ -EN AH10EN-5A
	UC-MS010-02A	Communication cable for PLC (8-pin mini-DIN male) to PC	1m	PC (DB9 female ↔ 8-pin mini-DIN male) PLC	
	UC-MS020-01A	Communication cable for PLC (8-pin mini-DIN male) to PC	2m	PC (DB9 female ↔ 8-pin mini-DIN male) PLC	
	UC-MS020-06A	Communication cable for PLC (8-pin mini-DIN male) to HMI	2m	HMI (DB9male ↔ 8-pin mini-DIN male) PLC	DVP PLC RS-232
	UC-MS030-01A	Communication cable for PLC (8-pin mini-DIN male) to PC	3m	PC (DB9 female ↔ 8-pin mini-DIN male) PLC	
	UC-MS030-06A	Communication cable for PLC (8-pin mini-DIN male) to HMI	3m	HMI (DB9male ↔ 8-pin mini-DIN male) PLC	
I/O External Terminal Module	UC-ET010-24A	I/O extension cable for connecting external terminal modules	1m	PLC (MILIDC40 ↔ IDC40) external terminal modules	DVP32SM11N ↔ UB-10-ID32A DVP32SN11TN ↔ UB-10-OT32A
	UC-ET010-24B	I/O extension cable for connecting external terminal modules	1m	PLC (MILIDC40 ↔ IDC40) external terminal modules (shielded wire)	DVP32SM11N ↔ UB-10-ID32A DVP32SN11TN ↔ UB-10-OT32A
	UC-ET010-24C	I/O extension cable for connecting external terminal modules	1m	PLC (MILIDC40 ↔ IDC20x2) external terminal modules	DVP32SN11TN ↔ UB-10-OR16A
	UC-ET010-24D	I/O extension cable for connecting external terminal modules	1m	PLC (MILIDC40 ↔ IDC20x2) external terminal modules (shielded wire)	DVP32SN11TN ↔ UB-10-OR16A
	UC-ET020-24B	I/O extension cable for connecting external terminal modules	2m	PLC (MILIDC40 ↔ IDC40) external terminal modules (shielded wire)	DVP32SM11N ↔ UB-10-ID32A DVP32SN11TN ↔ UB-10-OT32A
	UC-ET020-24D	I/O extension cable for connecting external terminal modules	2m	PLC (MILIDC40 ↔ IDC20x2) external terminal modules (shielded wire)	DVP32SN11TN ↔ UB-10-OR16A
	UC-ET030-24B	I/O extension cable for connecting external terminal modules	3m	PLC (MILIDC40 ↔ IDC40) external terminal modules (shielded wire)	DVP32SM11N ↔ UB-10-ID32A DVP32SN11TN ↔ UB-10-OT32A
	UC-ET030-24D	I/O extension cable for connecting external terminal modules	3m	PLC (MILIDC40 to IDC20x2) external terminal modules (shielded wire)	DVP32SN11TN ↔ UB-10-OR16A
Motion Control Cable / Industrial Communication Cable	UC-CMC003-01A	CANopen communication cable	0.3m	--	DVP/COPM-SL DVP10MC11T DVP15MC11T New DVPCP02-H2 TAP-CN03
	UC-CMC005-01A	CANopen communication cable	0.5m	--	
	UC-CMC010-01A	CANopen communication cable	1m	--	
	UC-CMC015-01A	CANopen communication cable	1.5m	--	
	UC-CMC020-01A	CANopen communication cable	2m	--	
	UC-CMC030-01A	CANopen communication cable	3m	--	
	UC-CMC050-01A	CANopen communication cable	5m	--	
	UC-CMC100-01A	CANopen communication cable	10m	--	
	UC-CMC200-01A	CANopen communication cable	20m	--	
	UC-EMC003-02A	EtherCAT communication cable	0.3m	--	AH10EMC-5A

Accessories

Type	Model Name	Description	Specification		Applicable Modules
			Length	Connector/Terminal Block	
Industrial Communication Cable	UC-DN01Z-01A	DeviceNet/CANopen communication cable (Trunk cable - thick)	On customer's demand (up to 305 m)	--	DeviceNet/CANopen related models
	UC-DN01Z-02A	DeviceNet/CANopen communication cable (Drop cable - thin)		--	
	UC-PF01Z-01A	PROFIBUS communication cable		--	PROFIBUS related models
External Terminal Module	UB-10-OR16A	external terminal module for DVP32SN output module	--	16-point relay output, 20-pin MIL	DVP32SN11TN
	UB-10-OT32A	external terminal module for DVP32SN output module	--	32-point transistor output, 40-pin MIL	DVP32SN11TN
	UB-10-ID32A	external terminal module for DVP32SM digital input module	--	32-point input, MIL	DVP32SM11TN
Connector	UN-03EN-04A	RJ45 connector	--	--	--
	UN-03PF-01A	PROFIBUS connector	--	--	PROFIBUS related models
	UN-03PF-02A	PROFIBUS connector	--	--	
	UN-03PF-03A	PROFIBUS connector	--	--	
Peripheral Accessory	Data backup memory card (DVP-EH3 only)				DVP-512Fm
	Data backup memory card (64k words)				DVPPCC01
	Communication cable for PC (9-pin & 25-pin D-Sub) and PLC, 3m				DVPACAB230
	4 types of RS-485 connectors				ADP485-01
	Connection cable for ADP485-01 and ASDA-A series servo				ADPCAB03A
	Connection cable for ADP485-01 and ASDA-B series servo				ADPCAB03B
	I/O extension cable for DVP-ES/EX Series, 0.3m				DVPACAB403
	Extension cable for DVP-EH series PLC and extension module, 0.7m				DVPACAB4A07
	DeviceNet/CANopen distribution box, 1 for 2				TAP-CN01
	DeviceNet/CANopen distribution box, 2 for 3				TAP-CN02
	DeviceNet/CANopen distribution box, 2 for 3 RJ45				TAP-CN03
	3.6V lithium battery (unchargeable) for DVP-EH/SX Series PLC				DVPABT01
	Terminal resistance for CANopen communication (RJ45)				TAP-TR01
	Programming cable for TP Series				UCPRG030-10A



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