

S Series PLC

Compact, Flexible Extension

DVP-SS2

2nd Generation Standard Slim PLC



Model Name	Specifications
DVP14SS211R	—DC— 8 I 6 O (R) →
DVP14SS211T	—DC— 8 I 6 O (T) →
DVP12SS211S	—DC— 8 I 4 O (S) →

—DC— : DC power supply I : Inputs O : Outputs
 (T) → : Transistor output (NPN) (R) → : Relay output
 (S) → : Transistor output (PNP)

DVP-SX2

2nd Generation Analog I/O Slim PLC



Model Name	Specifications
DVP20SX211R	—DC— 8 I 6 O (R) → 4AI/2AO
DVP20SX211T	—DC— 8 I 6 O (T) → 4AI/2AO
DVP20SX211S	—DC— 8 I 6 O (S) → 4AI/2AO

—DC— : DC power supply I : Inputs O : Outputs
 (T) → : Transistor output (NPN) (R) → : Relay output
 (S) → : Transistor output (PNP)

DVP-SA2

2nd Generation Advanced Slim PLC



Model Name	Specifications
DVP12SA211R	—DC— 8 I 4 O (R) →
DVP12SA211T	—DC— 8 I 4 O (T) →

—DC— : DC power supply I : Inputs O : Outputs
 (T) → : Transistor output (R) → : Relay output

DVP-SV2

High Performance Slim PLC



Model Name	Specifications
DVP28SV11R2	—DC— 16 I 12 O (R) →
DVP28SV11T2	—DC— 16 I 12 O (T) →
DVP28SV11S2	—DC— 16 I 12 O (S) →
DVP24SV11T2	—DC— 10 I 12 O (T) → 2AI

—DC— : DC power supply I : Inputs O : Outputs
 (T) → : Transistor output (NPN) (R) → : Relay output
 (S) → : Transistor output (PNP)

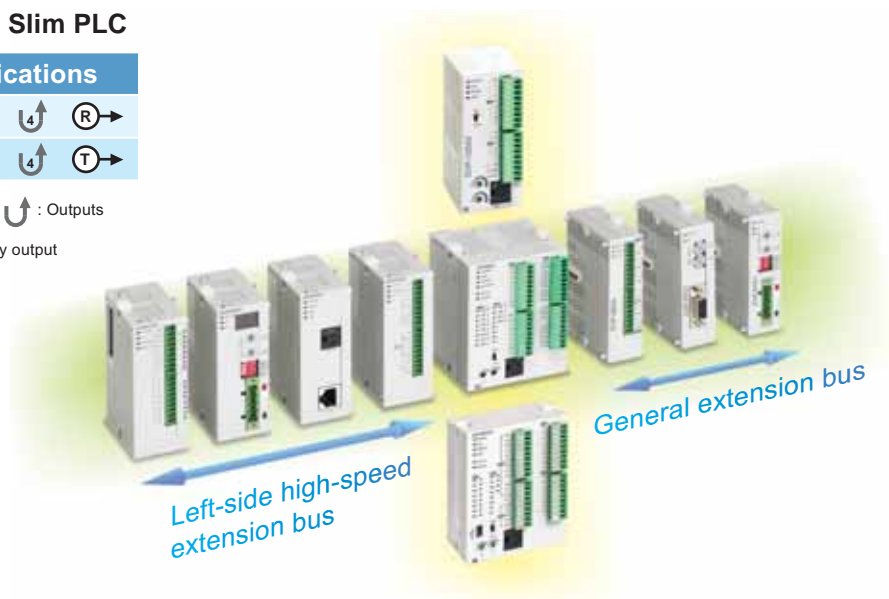
DVP-SE

Network Type Advanced Slim PLC



Model Name	Specifications
DVP12SE11R	—DC— 8 I 4 O (R) →
DVP12SE11T	—DC— 8 I 4 O (T) →

—DC— : DC power supply I : Inputs O : Outputs
 (T) → : Transistor output (R) → : Relay output



Slim Series Extension Modules

Left-Side High-Speed Extension Modules^{*1}

Network Modules

- **DeviceNet Master**
DVPCNET-SL
- **CANopen Master**
DVPCOPM-SL



- **Ethernet**
DVPEN01-SL



- **PROFIBUS-DP Slave**
DVPPF02-SL

- **RS-422/RS-485 Serial Communication Module**
DVPCSM12-SL



- **BACnet MS/TP Slave Serial Communication Module**

Analog Function Extension

- **Analog Input**
DVP04AD-SL
- **Analog Output**
DVP04DA-SL



Load Cell/Tension

- **Load Cell Module**
DVP01LC-SL
DVP02LC-SL
DVP201LC-SL
DVP211LC-SL
DVP202LC-SL



General Extension Modules^{*2}

I/O Point Extension

- **Input Point Extension**
DVP08SM11N
DVP16SM11N



- **Output Point Extension**
DVP06SN11R
DVP08SN11R/T
DVP08SN11TS
DVP16SN11T
DVP16SN11TS



- **Input/Output Point Extension**
DVP08SP11R/T
DVP08SP11TS
DVP16SP11R/T
DVP16SP11TS



- **Pin Header Input**
DVP32SM11N



- **Pin Header Output**
DVP32SN11TN



- **Digital Switch**
DVP08ST11N



Analog Function Extension

- **Analog Input**
DVP04AD-S
DVP06AD-S
DVP04AD-S2



- **Analog Output**
DVP04DA-S
DVP02DA-S
DVP04DA-S2



- **Analog Input/Output**
DVP06XA-S
DVP06XA-S2



Temperature Measurement

- **Sensor : Pt100, Pt1000**
DVP04PT-S
DVP06PT-S



- **Sensor : J,K,R,S,T thermocouple**
DVP04TC-S



- **Temperature Control :**
DVP02TUN-S
DVP02TUR-S
DVP02TUL-S



Communication Modules

- **PROFIBUS Slave**
DVPPF01-S
- **DeviceNet Slave**
DVPDT01-S



Power Supply Modules

- DVPPS01
DVPPS02
DVPPS05



Axis Control Module

- **Single-Axis Positioning**
DVP01PU-S



*1. DVP32EH00R3-L & DVP32EH00T3-L are also compatible with the left-side high-speed extension modules.

*2. Max. quantity of right-side extension module is 14, among which the quantity of -S and -S2 modules must be equal or less than 8. If the total quantity of extension modules is over the suggestion, high density extension module is another way to solve this situation

Specifications

Electrical Specifications

	AC	DC
Power Supply Voltage	100~240 V _{AC} (-15%~10%), 50/60Hz ±5%	24 V _{DC} (-15%~20%)
Fuse Capacity	2A/250 V _{AC}	ES: 2A/250 V _{AC} ; SV: 2.5A/30 V _{DC}
Spike Voltage Durability	1500 V _{AC} (Primary-secondary); 1500 V _{AC} (Primary-PE); 500 V _{AC} (Secondary-PE)	
Insulation Impedance	>5MΩ (all I/O point-to-ground: 500V _{DC})	
Noise Immunity	ESD: 8 kV Air Discharge EFT: Power Line, 2 kV Digital I/O: 1 kV Analog & Communication I/O: 1 kV RS: 26MHz~1 GHz, 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	24 V _{DC} ±10% (5mA)				
Response time^{*2}	EH3/SV2/PM	OFF→ON: 20 μs ON→OFF: 50 μs	ES/EX/SX/SS2/SX2 OFF→ON: 3.5 μs ON→OFF: 20 μs	ES2/EX2/SA2/SX2 OFF ON: 2.5 μs ON→OFF: 5 μs	EH3/SV2/PM OFF→ON: 0.15 μs ON→OFF: 3 μs
	ES2/EX2				
	ES/EX				
	SX				
	SS2				
	SA2/SX2/SE				

*1. For more detailed specifications, see "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.	EH3/SV2/PM	0.3A/point @40°C	SA2/SX2/ES2/EX2/SE Resistive: 0.5A/point (4A/COM) Conductive: 12W (24 V _{DC}) Light bulb: 2W (24 V _{DC})	EH3/SV2/PM Resistive: 0.5A/point (4A/COM) Conductive: 12W (24 V _{DC}) Light bulb: 2W (24 V _{DC})
	ES2/EX2			
	ES/EX			
	SX			
	SS2/SA2/SX2/SE			
Voltage Spec.	250 V _{AC} /30 V _{DC}	30 V _{DC}		
Response Time	10ms	OFF→ON: 20 μs ON→OFF: 30 μs	OFF→ON: 2 μs ON→OFF: 3 μs	OFF→ON: 0.5 μs ON→OFF: 2.5 μs

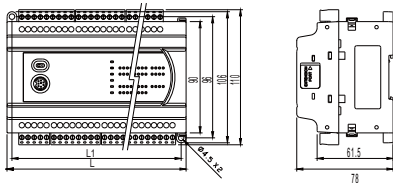
*1. For more detailed specifications, see "Specification" section in the instruction sheet of each model.

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

Dimensions Dimensions are in mm

ES2/EX2 Series PLC

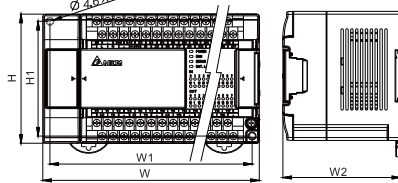
Model Name	L	L1
DVP16ES200R/T	105	97
DVP24ES200R/T	125	117
DVP32ES200R/T	145	137
DVP32ES200RC	145	137
DVP32ES200TC	145	137
DVP32ES211T	145	137
DVP40ES200R/T	165	157
DVP60ES200R/T	225	217
DVP20EX200R/T	145	137
DVP30EX200R/T	165	157



EH3 Series PLC

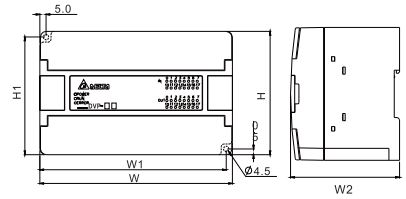
Model Name	H	H1	W	W1	W2
DVP16EH00R3/T3	90	80	113	103	82
DVP20EH00R3/T3	90	80	113	103	82
DVP32EH00M3/MT New	90	80	143.5	133.5	82
DVP32EH00R3/T3	90	80	143.5	133.5	82
DVP32EH00R3-L	90	80	143.5	133.5	82
DVP32EH00T3-L	90	80	143.5	133.5	82
DVP40EH00R3/T3	90	80	158.8	153.8	82
DVP48EH00R3/T3	90	80	174	164	82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

* The dimension of DVP-EH3 series is the same as DVP-EH2 series



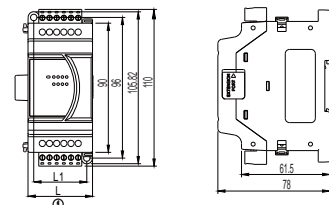
ES/EX Series PLC

Model Name	H	H1	W	W1	W2
DVP14ES00R2/T2	100	95	104	99	82
DVP24ES00R2/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
DVP20EX00R2/T2	100	95	155	150	82



ES2/EX2 Series Extension Modules

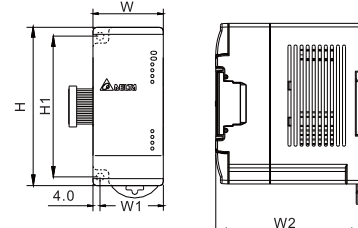
Model Name	L	L1	Type
DVP08XM211N	45	37	(1)
DVP08XP211R/T	45	37	(1)
DVP08XN211R/T	45	37	(1)
DVP16XM211N	70	62	(2)
DVP16XP211R/T	70	62	(2)
DVP16XN211R/T	70	62	(2)
DVP24XP200R/T	145	137	(2)
DVP24XN200R/T	145	137	(2)
DVP32XP200R/T	145	137	(2)
DVP04AD-E2	70	62	(2)
DVP02DA-E2	70	62	(2)
DVP04DA-E2	70	62	(2)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



EH3 Series I/O & Extension Modules

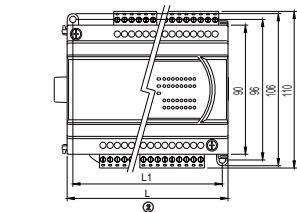
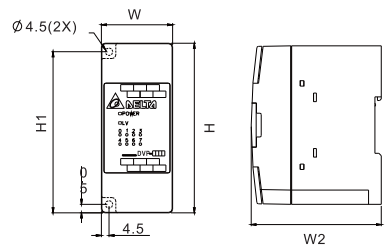
Model Name	H	H1	W	W1	W2
DVP08HM11N	90	80	40	36	82
DVP16HM11N	90	80	55	51	82
DVP32HM11N	90	80	143.5	133.5	82.2
DVP08HN11R/T	90	80	40	36	82
DVP32HN00R/T	90	80	143.5	133.5	82.2
DVP08HP11R/T	90	80	40	36	82
DVP16HP11R/T	90	80	55	51	82
DVP32HP00R/T	90	80	143.5	133.5	82.2
DVP48HP00R/T	90	80	174	164	82.2
Model Name	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 dimension of DVP-EH3 series is the same as DVP-EH2 series



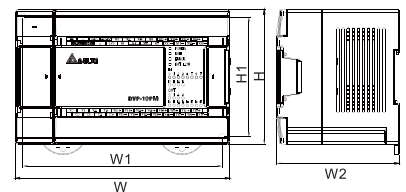
ES/EX Series I/O & Extension Modules

Model Name	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



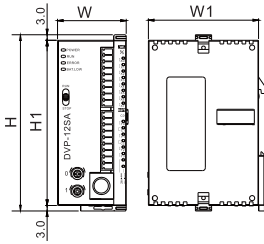
PM Series PLC

Model Name	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



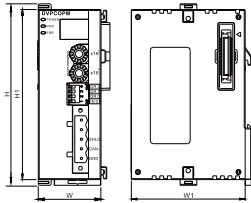
SE/SX/SS2/SA2 Series PLC

Model Name	H	H1	W	W1
DVP14SS21R/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



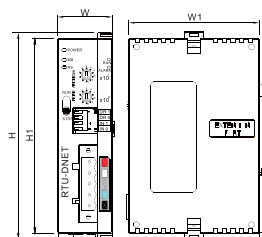
Left-Side High-Speed Extension Modules

Model Name	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



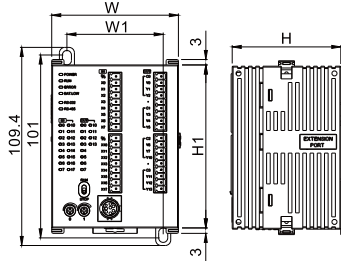
Remote I/O Modules

Model Name	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

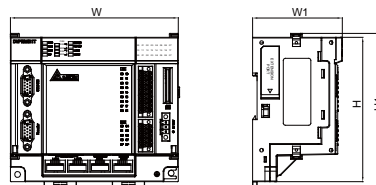


SV2/SX2/MC Series PLC

Model Name	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

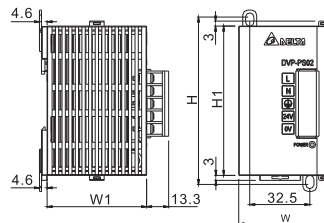


Model Name	H	H1	W	W1
New DVP15MC11T	110	116.2	128	68.4



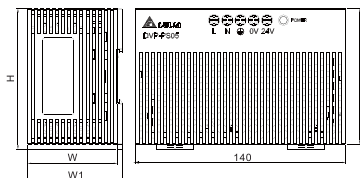
PS01/02 Power Supply Modules

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

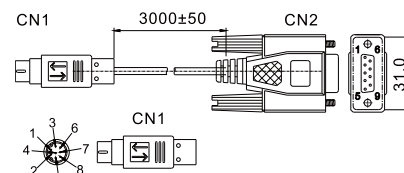


PS05 Power Supply Modules

Model Name	H	H1	W	W1
DVPPS05	93.3	90	60	63.4



PIN Definition of DVPACAB2A30

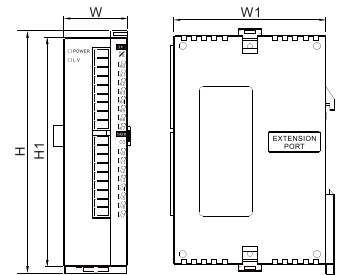


PC/HMI COM Port 9 PIN D-SUB female		PLC COM1 Port 8 PIN MINI DIN	
Tx	3	Rx	2
Rx	2	Tx	5
GND	5	GND	8
	7	1,2	5V
4	8		
6			

Unit: mm

S Series I/O & Extension Modules

Model Name	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



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

