





Delta's high-performance, high-speed DVP series PLCs are the most efficient and incorporates communication capabilities. Advantages include numerous built-in convenient commands for easy operation access and communication function monitoring.

The module-type unit affords tremendous space-saving, allowing simple, clip-on expansion possibilities. The PLCs high performance and extensive I/O units represent a high-value solution for machine control and industrial automation.

Common characteristics

- 32-bit CPU for high-speed processing
- Compact dimensions (H) 90 mm x (D) 60 mm DIN rail mounting
- · Built-in high speed counters up to 100 kHz (model dependant)
- · Clip-on extension modules general (right side) high speed (left side)
- Plug-in terminals for ease of wiring and maintenance
- Program language: (IL) instruction list, (LD) ladder diagram, (SFC) sequential function chart
- · Supports Modbus Master. Can connect up to 16 slaves (VFD,Temp controller, PLC)

type	supply	inputs	outputs	width	description	output	
	оарріу	(D I)	(DO)	(mm)	uccomplicit	type	

SS2 series - Economic, compact ultra-slim PLC

The DVP-SS2 series slim type PLC provides basic sequential control functions with fast execution speed. Accepts - general (right side) expansion modules only.

- · Max. I/O: 480 points
- · Program capacity: 8 k steps
- Data register: 5 k words
- Max. execution speed of basic instructions: 0.35 μs
- Built-in RS-232 and RS-485 ports (Master/Slave)
- Supports standard MODBUS ASCII / RTU protocol and PLC Link function

High speed functions

- 4 points of 10 kHz pulse output
- 6 x 1phase counters @ 10kHz or 2 x A/B counters @ 20kHz

DVP14SS211R	24 VDC	8	6	25,2	compact ultra slim PLC	re l ay
DVP14SS211T	24 VDC	8	6	25.2	compact ultra slim PLC	transistor (NPN)
DVP12SS211S	24 VDC	8	4	25.2	compact ultra slim PLC	transistor (PNP)

SA2 series - Advanced compact slim PLC

DVP-SA2 series offers larger program capacity and executing efficiency, offering 100 kHz high-speed output and counting functions. Expandable with DVP-S extension modules.

DVP12SA supports general (*right side*) and high speed (*left side*) expansion modules. **DVP28SA** supports general expansion modules (*right side*) only.

- Program capacity: 16 k steps
- Data register: 10 k words
- Max. execution speed of basic instructions: 0.35 μs
- Built-in 1 RS-232 and 2 RS-485 ports (Master/Slave)
- Supports standard MODBUS ASCII / RTU protocol and PLC Link function
- · No battery required; RTC function operates for up to 15 days after power off

High speed functions

- · Supports 2-axis linear and arc interpolation
- 4 points of high-speed pulse output: 100 kHz / 2 points, 10 kHz / 2 points
- 8 points of high-speed pulse input: 100 kHz / 2 points, 10 kHz / 6 points, 1 set of A/B phase 50 kHz

type	supply	inputs (DI)	outputs (DO)	width (mm)	description	output type
DVP12SA211R	24 VDC	8	4	37.4	advanced slim PLC advanced slim PLC	relay
DVP12SA211T	24 VDC	8	4	37.4		transistor (NPN)
DVP28SA211R*	24 VDC	16	12	46	advanced slim PLC advanced slim PLC	relay
DVP28SA211T*	24 VDC	16	12	46		transistor (NPN)

* Right hand side expansion only











Common characteristics

- · 32-bit CPU for high-speed processing
- Compact dimensions (H) 90 mm x (D) 60 mm DIN rail mounting
- Built-in high speed counters up to 200 kHz (model dependant)
- · Clip-on extension modules general (right side) high speed (left side)
- · Plug-in terminals for ease of wiring and maintenance
- · Program language: (IL) instruction list, (LD) ladder diagram, (SFC) sequential function chart
- Supports Modbus Master. Can connect up to 16 slaves (32 slaves for DVP-SE)

type	supply	inputs	outputs	width	description	output
	Зарріу	(D I)	(DO)	(mm)	docomption	type

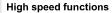
SE series - Network type advanced slim PLC

The most complete network type slim PLC in the industry. Typical applications include remote device monitoring, production line monitoring, building automation, printing machine, container filler (recipe application).

DVP12SE supports "general" (right side) and "high speed" (left side) expansion modules. DVP26SE only supports "general" (right side) expansion modules.

• Program capacity: 16 k steps · Data register: 12 k words

- Max, execution speed of basic instructions: 0.64 μs
- · No battery required; RTC function operates for up to 15 days after power off
- IP Filter functions as firewall as first line protection against malware and network threats
- Built-in mini USB port, 2 x RS-485 and Ethernet port supports MODBUS TCP and EtherNet/IP
- · Built-in Ethernet DVP12SE: MODBUS TCP/IP & Ethernet/IP (adapter mode) DVP26SE: MODBUS TCP/IP & Ethernet/IP (adapter mode)



- 4 points of high-speed pulse output: 100 kHz / 2 points, 10 kHz / 2 points
- 8 points of high-speed pulse input: 100 kHz / 2 points, 10 kHz / 6 points, 1 set of A/B phase 50 kHz
- · Supports 2-axis linear and arc interpolation

DVP12SE11R DVP12SE11T	24 VDC 24 VDC	8 8	4 4	37.4 37.4	network type PLC network type PLC	relay transistor (NPN)
DVP26SE11R*	24 VDC	14	12	46	network type PLC	relay
DVP26SE11T*	24 VDC	14	12	46	network type PLC	transistor (NPN)
* Right hand side	expansion on	ly				

SV2 series - "High performance" slim PLC

SV2 series is a high-end PLC providing larger program capacities and data registers for more demanding, complex applications. Increases many motion control instructions to meet high-speed applications, high-precision positioning control for labelling, packaging and printing machines.

 Program capacity: 30 k steps · Data register: 12 k words

• Max. execution speed of basic instructions: 0.24 μs

• 32-bit CPU + ASIC dual processors

Excellent high speed functions

- · High-speed pulse output: 4 axes of 200 kHz pulse output
- · Supports 4 hardware 200 kHz high speed counters
- · Linear/arc interpolation motion control function
- · Provides up to 16 external interrupt pointers

Complete program protection

- · Auto backup function prevents program and data loss even when the battery runs out
- · Secondary backup function saves an extra copy of programs and data to enhance program safety
- · Up to 4 levels of password protection protects your source programs and intellectual property

type	supply	inputs (DI)	outputs (DO)	width (mm)	description	output type
DVP28SV11R2	24 VDC	16	12	70	high perform PLC	relay
DVP28SV11T2	24 VDC	16	12	70	high perform PLC	transistor (NPN)
DVP28SV11S2	24 VDC	16	12	70	high perform PLC	transistor (PNP)





DVP20SX2..

DVP10MC11T





SX2/MC series

DVP series PLCs for industrial automation applications have been devoted to delivering more innovative products satisfying customer needs while meeting requirements of a wide variety of applications. Delta PLCs offer a broad range of controllers and modules, all featuring high performance, multiple functions with efficient program editing tools. In addition to user-friendly programming software and faster execution speed, they provide complete industry-focused solutions, motion control solutions, and industrial fieldbus solutions.

type	supp l y	inpu	ıts	outp	uts	width	output
	зарріу	(DI)	(AI)	(DO)	(AO)	(mm)	type

SX2 series - Analog I/O slim PLC

Compact PLC with outstanding analog functions with highly efficient PID control function. Supports "general" (*right side*) and "high speed" (*left side*) expansion modules.

- 32-bit CPU for high-speed processing
- Program capacity: 16 k steps
- Data register: 10 k words
- Max, execution speed of basic instructions: 0.35 μs
- Built-in analog inputs and outputs (12-bit resolution)
- Built-in mini USB, RS-232 and 2x RS-485 com ports (Master/Slave)
- Supports standard MODBUS ASCII/RTU protocol and PLC Link function
- No battery required, maintenance free (RTC operates for 10 days after power off)

Motion control functions

- 4 points of high-speed pulse output: 100 kHz / 2 points, 10 kHz / 2 points
- 8 points of high-speed pulse input: 100 kHz / 2 points, 10 kHz / 6 points
- · Supports 2-axis linear and arc interpolation

DVP10SX11R*	24 VDC	4	2	2	2	37.4	relay
DVP20SX211R	24 VDC	8	4	6	2	70	relay
DVP20SX211T	24 VDC	8	4	6	2	70	transistor (NPN)
DVP20SX211S	24 VDC	8	4	6	2	70	transistor (PNP)

^{* 2} x 7 segment display

MC series - Multi-axis motion controller

CANopen motion controller

16 axis motion controller offering highly stability multi-axis motion control solutions through high-speed CANopen communication.

Supports "general" (right side) and "high speed" (left side) expansion modules.

- · Built-in CANopen and encoder interface
- · High precision control with interpolation function
- Synchronization time: 4 axes in 2ms / 8 axes in 4ms
- Built-in Ethernet, RS-232 and RS-485 communication ports
- Up to 16 axes synchronous control through CANopen communication
- Supports electronic gear, E-cam (2.048 points), flying shear and rotary cut instructions
- Built-in 12 I/O points (8 sets of high-speed inputs, 4 sets of high-speed outputs)
- Built-in motion control instructions of electronic cam, flying shear, rotary cut for easy operation

inpı	uts
(DI)	(DO)

DVP10MC11T

24 VDC

8 4

motion controller

transistor (NPN)



PLC starter kits

Each kit comes complete with programming software for the PLC and HMI products, an I/O simulator board, 24 VDC power supply, all interconnecting cables, and a printed starter kit user manual. A Delta Branded USB memory stick is also included with product user manuals, product instruction sheets, and example application programs – all designed to increase commissioning productivity of feature use and interconnected communication.

- Available as Ethernet based kit or economical serial port based kit
- For learning PLC and HMI programming
- UT-14SS2-A (Serial Kit- DVP-14SS11R + 7" serial HMI)
- UT-12SE-A1 (Ethernet Kit DVP12SE11R + 7" Ethernet HMI)

UT-14SS2-A starter kit for learning programming of PLC /HMI relay
UT-12SE-A1 as above , but with hardware for Ethernet communication relay





Extension modules for SS2/SA2/SE/SX2/SV2/MC PLC's

Extension modules simply clip onto CPU's to add many additional functions, additional digital and/or Analog I/O's, communication, temperature measurement and load cell monitoring.

General extension modules (right side mounting)

type	supply	inputs (DI)	outputs (DO)	description	output type				
Digital Input extension modules									
DVP08SM11N DVP16SM11N DVP32SM11N* UB-10-ID32A UC-ET010-24A	24 VDC 24 VDC 24 VDC MIL con MIL con	8 16 32 32 1 met	_ _ _ _ I/O	extension module extension module extension module terminal module for above connection cable for above	DVP32SM				
Digital Output ext	ension modu	les							
DVP06SN11R DVP08SN11R DVP08SN11T DVP16SN11T DVP16SN11TS DVP32SN11TN* UB-10-OT32A	24 VDC 24 VDC 24 VDC 24 VDC 24 VDC 24 VDC	- - - - -	6 8 8 16 16 32	extension module extension module extension module extension module extension module extension module	relay (6A) relay (1.2A) transist (NPN) transist (PNP) transist (PNP) transist (NPN)				
UC-ET010-24A UC-ET020-24D UC-ET030-24D * Pin head terminati	MIL con MIL con MIL con MIL con	1 met 2 met 3 met able types		output terminal module connection cable for above shielded cable for above shielded cable for above hs, see C-14	DVP32SN DVP32SM\SN DVP32SM\SN DVP32SM\SN				

Digital I/O extension modules									
DVP08SP11R	24 VDC	4	4	extension modu l e	relay				
DVP16SP11R	24 VDC	8	8	extension modu l e	relay				
DVP08SP11T	24 VDC	4	4	extension modu l e	transist (NPN)				
DVP16SP11T	24 VDC	8	8	extension modu l e	transist (NPN)				
DVP16SP11TS	24 VDC	8	8	extension modu l e	transist (PNP)				
Analog I/O extension modules ±10V/±20mA (output: 0 to 10V/0 to 20m									

Built-in RS-485 interfa	ce	(AI)	(AO)		
DVP06AD-S 2 DVP04DA-S2 2	24 VDC 24 VDC 24 VDC 24 VDC	4 6 - 4	- 4 2	extension modu l e extension modu l e extension modu l e extension modu l e	– – analog analog

Temperature mea	asurement mo	dules			
Resolution:	0,1°C	inputs	outputs		sensor
DVP04PT-S*	24 VDC	4	_	RTD temperature module	PT100/1000
DVP06PT-S	24 VDC	6	_	RTD temperature module	PT100/1000
DVP04TC-S*	24 VDC	4	_	thermocouple temp. module	(J,K,R,S,T)

^{*} Built-in RS-485 interface

DVPDT01-S

DVPPF01-S

DVP02TU series temperature control modules (universal input)

 Analog inputs: 	0 - 10V, 0 - 20mA, 4 - 20mA
 Resolution: 	Analog 16-bit, Sensor: 0.1°C
 Thermocouple: 	J, K, R, S, T, E, N, B, C, L, U, TXK, PLII
 Output point: 	Built-in PID program control/manual control

• RTD: Pt100, JPt100, Pt1000, Cu50, Cu100, Ni100, Ni1000, LG-Ni1000

Configuration: Using TK soft (embedded in ISP soft)

DeviceNet

PROFIBUS-DP

DVP02TUL-S	24 VDC	2	2	analog	output voltage/current
DVP02TUN-S	24 VDC	2	4	transistor	NPN output overheat/current
DVP02TUR-S	24 VDC	2	4	relay	output overheat/overcurrent

DVFUZTUK=3	24 VDC	2	4	Гејау	output overneat/overcurrent	
Positioning control module		(single axis,	200kHz)			
DVP01PU-S	single-axis, 200	kHz			servo position control modu l e	
Communication modules						



DVP04DA-S2



DVD04DT S



DVPDT01-S

slave communication module

slave communication module