DVP12SE11T & DVP12SE11R MAPA DE MEMORIA E INFORMACIÓN.

To Processing Method executed) Execution Speed LD instructions – 0.64µs, MOV instructions 1000 steps – approximately 1ms Program language Instruction List + Ladder diagram+ SFC Program Capacity 15872 steps X External inputs Y External outputs YO-Y377, octal number system, 256 points max. 480 for M Auxiliary relay General M Auxiliary relay Latched Special M00-M511, 512 points, (*1) M2000-M2047, 48 points, (*1) M Auxiliary relay Latched M000-M1999, 1000 points, some are latched 100ms (M1028=ON, T184-T199 for Subroutines, 16 points, (*1) 100ms T128-T183, 56 points, (*1) 10ms 1200-T239, 40 points, (*1) 10ms T200-T245 (accumulative), for points, (*1) 11ms T127, 16 points, (*1) 128-T128-C199, 72 points, (*1) 25 Contacts 16-bit count up C0-C111, 112 points, (*1) 11ms C00-C111, 112 points, (*1) 23 246-T249(accumulative), 4 points, (*1) 23 Contacts Soft-wave			
To Processing Method executed) Execution Speed LD instructions – 0.64µs, MOV instructions 1000 steps – approximately 1ms Program language Instruction List + Ladder diagram+ SFC Program Capacity 15872 steps X External inputs Y External outputs YO-Y377, octal number system, 256 points max. 480 for M Auxiliary relay General M Auxiliary relay Latched Special M00-M511, 512 points, (*1) M2000-M2047, 48 points, (*1) M Auxiliary relay Latched M000-M1999, 1000 points, some are latched 100ms (M1028=ON, T184-T199 for Subroutines, 16 points, (*1) 100ms T128-T183, 56 points, (*1) 10ms 1200-T239, 40 points, (*1) 10ms T200-T245 (accumulative), for points, (*1) 11ms T127, 16 points, (*1) 128-T128-C199, 72 points, (*1) 25 Contacts 16-bit count up C0-C111, 112 points, (*1) 11ms C00-C111, 112 points, (*1) 23 246-T249(accumulative), 4 points, (*1) 23 Contacts Soft-wave			
Execution Speed LD instructions – 0.64µs, MOV instructions 1000 steps – approximately 1ms Program Capacity Instruction List + Ladder diagram + SFC X External inputs X0~X377, octal number system, 256 points max. Y External outputs Y0~Y377, octal number system, 256 points max. M Auxiliary relay General M0~M511, 512 points, (*1) M768~M999, 232 points, (*1) M2000~M2047, 48 points, (*2) 400 M Auxiliary relay General M1000~M1999, 1000 points, (*2) M1000~M1999, 1000 points, some are latched 405 Bit T Timer 100ms (M1028=ON, T64~T126; points (*1) T128~T183, 56 points, (*1) T128~T183, 56 points, (*1) T128~T183, 56 points, (*1) T126~T225 (accumulative), 6 points (*1) T126~T225 (accumulative), 6 points (*1) T240~T245 (accumulative), 6 points, (*1) T1240~T245 (accumulative), 6 points, (*1) T1240~T249 (accumulative), 4 points, (*1) T1240~T249 (accumulative), 4 points, (*1) T1240~T249 (accumulative), 4 points, (*1) T127. 1 points, (*1) C112~C127. 16 points, (*1) C112~C127. 16 points, (*1) C112~C127. 16 points, (*1) C112~C127. 16 points, (*1) C124~C231. 8 points, (*2) C233~C234. 2 phase 2 input. 2 points, (*2) C233~C234. 2 phase 2 input. 2 points, (*2) C233~C234. 2 phase 2 input. 2 points, (*2) C233~C234. 2 phase 1 input. 3 points, (*2) C233~C234. 2 phase 1 input. 2 points, (*2) C233~C234. 2 phase	Batch processing method (when END instruction is		
Program language Instruction List + Ladder diagram+ SFC Program Capacity 15872 steps X External inputs X0~X377, octal number system, 256 points max. 480 Y External outputs Y0~Y377, octal number system, 256 480 M Auxiliary relay General M0~M511, 512 points, (*1) 405 M Auxiliary relay Latched M512~M767, 256 points, (*2) 405 Special M1000~M1999, 1000 points, some are latched T0~T126, 127 points, (*1) 405 T Timer 100ms T0~T126, 127 points, (*1) 17250~T255(accumulative), 6 points, (*1) 25 Bit Toms T200~T245: 1ms) 6 points, (*1) 25 Soft- T240~T249(accumulative), 4 points, (*1) 25 C Counter Soft- C20~C23, 24 points, (*1) 23 23-bit count up/down C224~C231, 8 points, (*2) 23 23 C233~C244, 1 phase 1 input, 8 points, (*2) 23 23 C233~C244, 1 phase 1 input, 2 C243~C244, 1 phase 1 input, 2 23	LD instructions - 0.64µs, MOV instructions - 2µs,		
Program Capacity 15872 steps X External inputs X0-X377, octal number system, 256 points max. 480 for Y External outputs Y0-Y377, octal number system, 256 points max. 480 for M Auxiliary relay General M0-M511, 512 points, (*1) M768-M999, 232 points, (*1) 405 M Auxiliary relay Latched M512-M767, 256 points, (*2) M2048-M4095, 2048 points, (*2) 405 T Timer 100ms (M1028=ON, T64-T126: 10ms) M1000-M1999, 1000 points, some are latched 70-T126, 127 points, (*1) T128-T183, 56 points, (*1) 25 Bit Contacts 10ms (M1038=ON, T200-T245: 1ms) T200-T239, 40 points, (*1) T240-T245(accumulative), 6 points (*1) 25 Bit Contacts 16-bit count up C0-C111, 112 points, (*1) T127, 1 points, (*1) T246-T249(accumulative), 4 points, (*1) 23 C Counter Soft- ware Soft- ware C235-C242, 1 phase 1 input, 8 points, (*2) 23 C Counter Soft- high- mand Soft- ware C235-C244, 2 phase 2 input, 2 points, (*2) 23			
X External inputs X0~X377, octal number system, 256 points max. 480 for Y External outputs Y0~Y377, octal number system, 256 points max. 480 for M Auxiliary relay General M0~M511, 512 points, (*1) M2000-M2047, 48 points, (*1) 405 M Auxiliary relay General M0~M511, 512 points, (*1) M2000-M2047, 48 points, (*1) 405 M Auxiliary relay General M0~M511, 512 points, (*1) M1000-M1999, 1000 points, (*1) 405 T Timer Information (M1028=ON, T64~T126: 10ms T128~T183, 56 points, (*1) 405 Bit Contacts T Timer Information (M1038=ON, T200~T245: 1ms) T200~T239, 40 points, (*1) 25 Bit Contacts T Timer Information (M1038=ON, T200~T245: 1ms) T240~T245(accumulative), 6 points (*1) 25 Bit Contacts C Counter Soft- up/down C224~C231, 8 points, (*1) 23 C Counter Soft- high- mend Soft- ware C23~C244, 1 phase 1 input, 8 points, (*2) 23 C Counter Soft- high- bigh- Soft- ware C23~C244, 2 phase 2 in			
X External inputs points max. 480 for Y External outputs Y0-Y377, octal number system, 256 points max. 480 for M Auxiliary relay General M0-M511, 512 points, (*1) M2000-M2047, 48 points, (*1) 405 M Auxiliary relay Latched M512-M767, 256 points, (*2) M2048-M4095, 2048 points, (*2) 405 Special M1000-M1999, 1000 points, some are latched T0-T126, 127 points, (*1) 405 I 100ms T260-T255 (accumulative), 6 points, (*1) 110ms 7250-T255 (accumulative), 6 points, (*1) 250 Bit 10ms T200-T245: 1ms) 6 points, (*1) 250 250 Contacts 16-bit count up C0-C111, 112 points, (*1) 250 250 250 C Counter Soft-ware C200-C223, 24 points, (*1) 230 230 C Counter Soft-ware C235-C242, 1 phase 1 input, 8 points, (*2) 23 C Counter Soft-ware C235-C244, 2 phase 2 input, 2 points, (*2) 23			
Y External outputs Y0-Y37, octai number system, 256 points max. for M Auxiliary relay General M0-M511, 512 points, (*1) M2000-M2047, 48 points, (*1) M2000-M2047, 48 points, (*1) M2000-M2047, 48 points, (*1) M2000-M2047, 48 points, (*1) 405 M Auxiliary relay Latched M512-M767, 256 points, (*2) M2048-M4095, 2048 points, (*2) M2048-M4095, 2048 points, (*2) 405 Special M1000-M1999, 1000 points, some are latched T0-T126, 127 points, (*1) T128-T183, 56 points, (*1) 100ms (*1) T128-T183, 56 points, (*1) 100ms T64-T126: points, (*1) T184-T199 for Subroutines, 16 points, (*1) 250 10ms T200-T239, 40 points, (*1) 250 10ms T200-T245(accumulative), 6 points, (*1) 250 10ms T200-T245(accumulative), 4 points, (*1) 250 10ms T200-T245(accumulative), 4 points, (*1) 250 10ms T227, 1 points, (*1) 250 110ms T227, 1 points, (*1) 250 128-Class General C0-C111, 112 points, (*1) 110ms T220-T245: 1ms) 6 points, (*1) 23 111 T127, 1 points, (*1) 210	Total		
M Auxiliary relay General M0~M511, 512 points, (*1) M768~M999, 232 points, (*1) M2000~M2047, 48 points, (*1) 409 M Auxiliary relay Latched M512~M767, 256 points, (*2) M2048~M4095, 2048 points, (*2) 409 Special M1000~M1999, 1000 points, some are latched M1000~M1999, 1000 points, some are latched 409 T Timer 100ms (M1028=ON, T64~T126: 10ms) T0~T126, 127 points, (*1) T128~T183, 56 points, (*1) 25 Bit Contacts 10ms (M1038=ON, T200~T239, 40 points, (*1) T250~T255(accumulative), 6 points, (*1) 25 Bit Contacts 10ms (M1038=ON, T200~T245: 1ms) T127, 1 points, (*1) T240~T245(accumulative), 4 points, (*1) 25 General 16-bit count up (M1038=ON, T240~T249(accumulative), 4 points, (*1) 23 23 Gov 11 Soft- ware C235~C242, 1 phase 1 input, 8 points, (*2) 23 C Counter Soft- ware C235~C242, 1 phase 2 input, 2 points, (*2) 23 C233~C234, 2 phase 2 input, 2 points, (*2) C233~C234, 2 phase 2 input, 2 points, (*2) 23	PLC (*4)		
M Auxiliary relay Latched M512~M767, 256 points, (*2) M2048~M4095, 2048 points, (*2) 409 Special M1000~M1999, 1000 points, some are latched M1000~M1999, 1000 points, some are latched 409 T Timer 100ms (M1028=ON, T64~T126: 10ms) T128~T183, 56 points, (*1) T128~T183, 56 points, (*1) 1 Bit Contacts T Timer 100ms (M1038=ON, T200~T245: 1ms) T200~T239, 40 points, (*1) T240~T245(accumulative), 6 points, (*1) 25 Image: Contacts 16-bit count up C0~C111, 112 points, (*1) T127, 1 points, (*1) 25 Good Contacts 16-bit count up C0~C111, 112 points, (*1) C112~C127, 16 points, (*1) 23 C Counter Soft- ware Soft- ware C200~C223, 24 points, (*1) C233~C234, 2 phase 2 input, 8 points, (*2) 23 C Counter Soft- high- points, (*2) C233~C234, 2 phase 2 input, 2 points, (*2) 23			
Bit Contacts T Timer Special M1000~M1999, 1000 points, some are latched T000 points, some are latched T000 points, some are latched Bit Contacts T Timer 100ms (M1028=ON, T64~T126: 10ms) T0~T126, 127 points, (*1) T128~T183, 56 points, (*1) 25 Bit Contacts Timer 10ms (M1038=ON, T200~T245: 1ms) T200~T239, 40 points, (*1) T240~T245(accumulative), 6 points, (*1) 25 Bit Contacts 10ms (M1038=ON, T200~T245: 1ms) T240~T245(accumulative), 6 points, (*1) 25 11ms T226~T259(accumulative), T240~T249(accumulative), 4 points, (*1) 25 11ms T127, 1 points, (*1) T246~T249(accumulative), 4 points, (*1) 25 116-bit count up C128~C199, 72 points, (*1) C112~C127, 16 points, (*2) 23 32-bit count up/down C224~C231, 8 points, (*2) 23 C Soft- ware Soft- points, (*2) C235~C234, 2 phase 1 input, 8 points, (*2) C243~C244, 1 phase 1 input, 2 C243~C244, 1 phase 1 input, 2 23	Total 96 points		
Bit Contacts Timer 100ms (M1028=ON, T64~T126: 10ms) T0~T126, 127 points, (*1) T128~T183, 56 points, (*1) 25 Bit Contacts Timer 100ms (M1028=ON, T64~T126: 10ms) T250~T255(accumulative), 6 points, (*1) 25 Bit Contacts 10ms (M1038=ON, T200~T245: 1ms) T200~T239, 40 points, (*1) T240~T245(accumulative), 6 points, (*1) 25 Ims T127, 1 points, (*1) T127, 1 points, (*1) T127, 1 points, (*1) C112~C127, 16 points, (*1) 25 C Counter 16-bit count up C0~C111, 112 points, (*1) C112~C127, 16 points, (*1) 23 Soft- up/down Soft- ware C235~C242, 1 phase 1 input, 8 points, (*2) 23 C Counter Soft- ware C233~C234, 2 phase 2 input, 2 points, (*2) 23			
Bit Contacts T Timer (M1028=ON, T64-T126: 10ms) T184-T199 for Subroutines, 16 points, (*1) 25 Bit Contacts Timer 10ms (M1038=ON, T200~T245: 1ms) T200~T239, 40 points, (*1) T240~T245(accumulative), 6 points, (*1) 25 Ims T200~T245: 1ms) 6 points, (*1) T127, 1 points, (*1) 25 Ims T127, 1 points, (*1) T127, 1 points, (*1) 7 Ims T128~C199, 72 points, (*1) C112~C127, 16 points, (*1) 23 Soft- up/down Soft- ware C200~C223, 24 points, (*1) C233~C234, 2 phase 1 input, 8 points, (*2) 23 C Counter Soft- high- spond Soft- ware C233~C234, 2 phase 2 input, 2 points, (*2) 23			
Bit Contacts T Timer 10ms (M1038=ON, T200~T245: 1ms) T200~T255(accumulative), 6 points (*1) 250 Bit Contacts 10ms T200~T239, 40 points, (*1) 250 Ims T200~T245(accumulative), 6 points, (*1) 250 Tumer 10ms T200~T239, 40 points, (*1) 250 Ims T200~T245(accumulative), 6 points, (*1) 250 Tumer 11ms T127, 1 points, (*1) 110 Ims T127, 1 points, (*1) 110 110 Ims T128~C199, 72 points, (*1) 110 110 Ims 16-bit count up C0~C111, 112 points, (*1) 110 110 Ims 10-bit count up C128~C199, 72 points, (*1) 210 210 Ims 10-bit count up C200~C223, 24 points, (*1) 210 230 Imp/down C224~C231, 8 points, (*2) 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230			
Bit Contacts Timer 10ms (M1038=ON, T200~T245: 1ms) T200~T239, 40 points, (*1) T240~T245(accumulative), 6 points, (*1) 25 Bit Contacts 10ms (M1038=ON, T200~T245: 1ms) T240~T245(accumulative), 6 points, (*1) 25 1ms T240~T245(accumulative), 6 points, (*1) 10ms (*1) 10ms (*1) 25 1ms T240~T245(accumulative), 720°T245: 1ms) 6 points, (*1) 10ms (*1) 25 1ms T246~T249(accumulative), 4 points, (*1) 10ms (*1) 10ms (*1) 25 16-bit count up C0~C111, 112 points, (*1) C112~C127, 16 points, (*2) 23 23 32-bit count up/down C200~C223, 24 points, (*1) 23 C Counter Soft- high- tmond 235~C242, 1 phase 1 input, 8 points, (*2) 23 C233~C234, 2 phase 2 input, 2 points, (*2) C243~C244, 1 phase 1 input, 2 23			
Bit Contacts 10ms T200~T239, 40 points, (*1) 25 Bit Contacts 10ms T240~T245(accumulative), 6 points, (*1) 25 1ms T127, 1 points, (*1) T127, 1 points, (*1) 25 1ms T127, 1 points, (*1) T246~T249(accumulative), 4 points, (*1) 4 points, (*1) 16-bit count up C0~C111, 112 points, (*1) C128~C199, 72 points, (*1) 23 32-bit count up/down C200~C223, 24 points, (*1) 23 C Counter Soft- high- tigh- bigh- tigh- Soft- ware C235~C242, 1 phase 1 input, 8 points, (*2) 23 C233~C234, 2 phase 2 input, 2 points, (*2) C233~C234, 2 phase 2 input, 2 points, (*2) 23	Total 256 points		
Bit Contacts (M1038=ON, T200~T245: 1ms) T240~T245(accumulative), 6 points, (*1) 1ms T127, 1 points, (*1) T246~T249(accumulative), 4 points, (*1) 1ms Co~C111, 112 points, (*1) C128~C199, 72 points, (*1) 16-bit count up C0~C111, 112 points, (*1) C112~C127, 16 points, (*2) 32-bit count up/down C224~C231, 8 points, (*1) C Counter Soft- high- thigh- sord 32bit high- thigh- Soft- Ware C Counter Soft- points, (*2) C C Counter Soft- points, (*2) C C Counter Soft- points, (*2)			
Bit Contacts T200~T245: 1ms) 6 points, (*1) 1ms T127, 1 points, (*1) T127, 1 points, (*1) 1ms Co~C111, 112 points, (*1) C0~C111, 112 points, (*1) 16-bit count up C0~C111, 112 points, (*1) C128~C199, 72 points, (*1) 32-bit count C200~C223, 24 points, (*1) 23 32-bit count C224~C231, 8 points, (*2) 23 Soft- Soft- C235~C242, 1 phase 1 input, 8 points, (*2) C233~C234, 2 phase 2 input, 2 points, (*2) C243~C244, 1 phase 1 input, 2 C243~C244, 1 phase 1 input, 2 C243~C244, 1 phase 1 input, 2			
Contacts T127, 1 points, (*1) T246~T249(accumulative), 4 points, (*1) 1ms T127, 1 points, (*1) T246~T249(accumulative), 4 points, (*1) 16-bit count up C0~C111, 112 points, (*1) C128~C199, 72 points, (*1) 32-bit count up/down C200~C223, 24 points, (*1) C224~C231, 8 points, (*2) C35~C242, 1 phase 1 input, 8 points, (*2) Soft- high- troord Soft- Ware C233~C234, 2 phase 2 input, 2 points, (*2) C243~C244, 1 phase 1 input, 2			
16-bit count up C128~C199, 72 points, (*1) 23 32-bit count up/down C200~C223, 24 points, (*1) 23 C Counter Soft- high- bigh- bigh- bigh- bigh- bigh- Soft- bigh- bi			
C Counter Coun	1000		
32-bit count up/down C200~C223, 24 points, (*1) 23 C Counter Soft- 32bit high- speed Soft- ware C235~C242, 1 phase 1 input, 8 points, (*2) C233~C234, 2 phase 2 input, 2 points, (*2) 23	Total		
up/down C224~C231, 8 points, (*2) C Counter Soft- 32bit high- speed Soft- ware C235~C242, 1 phase 1 input, 8 points, (*2) C Counter Soft- high- speed C233~C234, 2 phase 2 input, 2 points, (*2)	32 points		
C Counter 32bit high- speed			
C Counter 32bit high- report 1			
high- c243~C244, 1 phase 1 input, 2			
nigh- C243~C244, 1 phase 1 input, 2			
Doints (*2)	Total 0 points		
count up/down Hard- ware points, (*2)	20 points		
C251~C254 2 phase 2 input, 4 points, (*2)	-		
	otal 1024		

			Sp	ecifications						
		point	Zero point return	S10~S19, 10 points (use with IST instruction), (*2)	points					
			Latched	S20~S127, 108 points, (*2)	2					
			General	S128~S911, 784 points, (*1)	-					
			Alarm	S912~S1023, 112 points, (*2)	-					
	T	Current		T0~T255, 256 words	99					
	-	Ourient	YOUNG	C0~C199, 16-bit counter, 200 words						
	C	Current	value	C200~C254, 32-bit counter, 55 word						
			General	D0~D407, 408 words, (*1) D600~D999, 400 words, (*1) D3920~D9799, 5880 words, (*1) D10000~D11999, 2000 words, (*1)	3					
Word Register			Latched	D408~D599, 192 words, (*2) D2000~D3919, 1920 words, (*2)	-					
	D	Data register	Special	D1000~D1999, 1000 words, some are latched	Total 12000 point					
			Right-side special module	D9900~D9999, 100 words, (*1) (*5)						
								Left-side special module	D9800~D9899, 100 words, (*1) (*6)	
			Index	E0~E7, F0~F7, 16 words, (*1)	8					
	N	Master of	control loop	N0~N7, 8 points						
ļ	P	Pointer		P0~P255, 256 points	20000000					
	pinter I	r I		External interrupt	1000/1001(X0), 1100/1101(X1), 1200/12 1300/1301(X3), 1400/1401(X4), 1500/15 1600/1601(X6), 1700/1701(X7), 8 point edge trigger, 00: falling-edge trigg	01(X5), ts (01: rising-				
Pointer			r I	ter I	er I	1	Interrupt Service	Timer interrupt	1602~1699, 1702~1799, 2 points (Time 1ms) 1805~1899, 1 point (Timer resolution (Supported by V1.60 and above)	er resolution =
			High-speed counter interrupt	1010, 1020, 1030, 1040, 1050, 1060, 107 points	70, 1080, 8					
		-		~				Communication interrupt	1150 (COM2), 1160 (COM3), 2 points, (*3)	
Constant	к	Decimal	0	K-32,768 ~ K32,767 (16-bit operation K-2,147,483,648 ~ K2,147,483,647 (operation)						
	н	Hexade	cimal	H0000 ~ HFFFF (16-bit operation), H00000000 ~HFFFFFFFF (32-bit operation)						
Serial Po	rts			COM1: built-in USB (Slave) COM2: built-in RS-485 (Master/Slave COM3: built-in RS-485 (Master/Slave Ethernet: built-in Ethernet (Please re B for more information.) COM1 is typically the programming p	e) e) fer to Append					
Real Time Clock			Year, Month, Day, Week, Hours, Min							
Special I/O Modules			Right side: Up to 8 I/O modules can Left side: Up to 8 high-speed I/O mo connected	be connected						

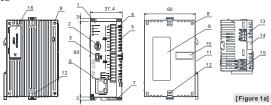
ENGLISH =

Thank you for choosing Delta DVP-SE. DVP-SE features both 12-point (8DI + 4DO) and 26-point (14DI + 12DO) in-built PLC MPUs, offering various instructions and with 16k steps program memory, able to connect to all DVP Slim type series extension modules and high-speed extension modules, including digital I/O (max. 480 I/O points) and analog modules (for A/D, D/A conversion and temperature measurement). 2 points of 100 kHz and 2 points of 10 kHz high-speed pulse output satisfy all kinds of applications. DVP-SE is small in size, and can be installed easily. Users do not have to install any batteries in DVP-SE series PLCs. The PLC programs and the latched data are stored in the high-speed flash memories.

- EN / DVP-SE is an OPEN-TYPE device. It should be installed in a control cabinet free of airborne dust, humidity, electric shock and vibration. To prevent non-maintenance staff from operating DVP-SE, or to prevent an accident from damaging DVP-SE, the control cabinet in which DVP-SE is installed should be equipped with a safeguard. For example, the control cabinet in which DVP-SE is installed can be unlocked with a special tool or key.
- FR / DVP-SE est un module OUVERT. Il doit être installé que dans une enceinte protectrice (boitier, armoire, etc.) saine, dépourvue de poussière, d'humidité, de vibrations et hors d'atteinte des chocs électriques. La protection doit éviter que les personnes non habilitées à la maintenance puissent accéder à l'appareil (par exemple, une clé ou un outil doivent être nécessaire pour ouvrir a protection).
- FR ✓ Ne pas appliquer la tension secteur sur les bornes d'entrées/Sorties, ou l'appareil DVP-SE pourra être endommagé. Merci de vérifier encore une fois le câblage avant la mise sous tension du DVP-SE. Lors de la déconnection de l'appareil, ne pas toucher les connecteurs dans la minute suivante. Vérifier que la terre est bien reliée au connecteur de terre ⊕ afin d'éviter toute interférence électromagnétique.

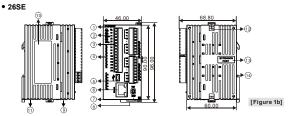
Product Profiles





Unit: mm

1. POWER, RUN, ERROR, COM1 indicator	9. Nameplate
2. RUN/STOP switch	10. Right-side extension port
3. COM1 port (Mini USB)	11. DIN rail mounting slot (35mm)
4. I/O terminals and COM3 comm. port (RS-485)	12. Extension unit clip
5. I/O point and COM2, COM3 indicator	13. COM2 communication port (RS-485)
Ethernet communication port	14. Mounting rail for extension module
7. DIN rail clip	15. DC power input
8. Mounting hole for extension module	16. Left-side module connection port



Unit: mm

1. Model name	8. DIN rail clip			
2. POWER, RUN, ERROR, USB, COM2 indicator 9. RS-485 communic				
3. I/O terminals	10. Label			
4. I/O indicator	11. DC power input			
5. I/O port for program communication (Mini USB)	12. Extension unit clip			
Ethernet communication port	13. Extension port			
7. RUN/STOP switch	14. DIN rail mounting slot (35mm)			

Electrical Specifications

DVP Model	12SE11R	12SE11T	26SE11R	26SE11T	26SE11S
Item					
Power supply voltage	24 VDC (-15 to 20%) (with counter-connection protection on the polarity of DC input power) DVPPS01/PS02: input 100 to 240 VAC, output 24 VDC/1A (PS02: 2A)				
Connector	European sta	andard remova	able terminal b	lock (Pin pitch	n: 3.5 mm)
Operation	Maximum po	wer loss time	is 10 ms or les	SS.	
Max inrush current	7.5 A@24 VE	DC, I ² t = 0.25	A ² S		
Fuse capacity	2.5 A/30 VDC, Polyswitch				
Power consumption	1.8 W	1.5 W	3W	1.8W	1.7W
Power protection	With counter-connection protection on the polarity of DC input power				
Insulation resistance	> 5 MΩ (all I/	O point-to-gro	und: 500 VDC	;)	
Noise immunity	ESD (IEC 61131-2, IEC 61000-4-2): 8kV Air Discharge EFT (IEC 61131-2, IEC 61000-4-4): Power Line: 2kV, Digital I/O: 1kV, Analog & Communication I/O: 1kV RS (IEC 61131-2, IEC 61000-4-3): 26MHz ~ 1GHz, 10V/m				Digital I/O:
Grounding	The diameter of grounding wire cannot be smaller than the wire diameter of terminals L and N (All DVP units should be grounded directly to the ground pole).				
Operation / storage	Operation: 0 to 55°C (temp.), 50 to 95% (humidity), Pollution degree 2 Storage: -25 to 70°C (temp.), 5 to 95% (humidity); incondensable.				
Vibration / shock resistance	International standards: IEC61131-2, IEC 68-2-6 (TEST Fc)/IEC61131-2 & IEC 68-2-27 (TEST Ea)				
Weight (g)	145g	135g	175g	135g	135g
Model	24 VDC (-15 to 20%) single common port input			put	

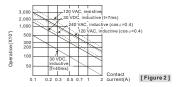
Model	24 VDC (-15 to 20%) single common port input				
Item	12SE	26SE			
Input No.	X0 ~ X2 (12SE) X3 ~ X7 (12SE) X0 ~ X3 (26SE) X4 ~ X7 (26SE)		X10~X15		
Input type	S/S connection (SINK or SOURCE)				

	Model	24 VDC (-1	on port input	
Item		12SE / 26SE		26SE
Input curre	nt (±10%)	24 VDC · 5 mA		
Input imped	dance	4.7 kΩ		
Max. frequency		100 kHz	10 kHz	50Hz
Action	Off → On	> 15 VDC		
level	On → Off			
Response time	Off → On	< 2.5 µs	< 20 µs	<10ms
Noise reduction	On → Off	< 5 µs	< 50 µs	<10ms
Filter time		X0~X7 : Adjustable within 0 ~ 20 ms by D1020 (Default: 10 ms) X10~X15 : Adjustable within 0 ~ 20 ms by D1021 (Default: 10 ms)		

Spec.		Output Points				
		Relay	Relay Transistor (NPN &		k PNP)	
Output No.		Y0 ~ Y13	Y0, Y2 Y1, Y3 Y4~Y1			
Max. frequer	псу	1 Hz	100 kHz	10 kHz	1kHz ^{#4}	
Working volt	age	100~250 VAC, 5~30 VDC	5	5 ~ 30 VDC #	1	
Leak current		-		<100uA		
Max. İnrush	current	-	Transistor-T (Sink): 10 / Transistor-S (Source): 4 (When Ta=25°C, VDS=: and inrush time=1ms)		A	
	Resistive	1.5 A /1point (5 A/COM)	0.5 A/1 point (4 A/COM)		COM)	
Max. load Inductive		#2	15 W (30 VDC)))	
Lamp 20 WDC/100 WAC 2.5 W (2.5 W (30 VDC)				
Min. load		1mA / 5V	1mA/5V			
Response	Off → On	Approx.10 ms	2 µs ^{#3}	20 µs ^{#3}	100µs ^{#3}	
time	On → Off	Approx. TO This	3 µs ^{#3}	30 µs ^{#3}	300µs ^{#3}	

#1: UP, ZP must work with external auxiliary power supply 24 VDC (-15 to +20%), rated consumption approx. 1mA/point.

#2: Lives of relay contacts would vary according to operation voltage, types of load (cosø: power factor, t: time constant) and current flow at contacts. Refer to the below lifecycle graph for the estimated number of operations.



#3: Load = 0.5A

#4: Maximum output speed would be impacted by the actual PLC scan time.

Model		Input Output I/O Config			nfiguration		
woder	Point	Туре	Point	Туре	Relay	Transistor	
DVP12SE11R	8			4	Relay	S/S X0 X1 X2 X3 X4 X5 X6 X7	S/S X0 X1 X2 X3 X4 X5 X6 X7
DVP12SE11T	8		4	Transistor (NPN)	C0 Y0 Y1 Y2 Y3 • SG COM3+ COM3-	Y0 Y1 Y2 Y3 UP ZP SG COM3+ COM3-	
DVP26SE11R		DC (Sink Or Source)			Relay	S/S C0 X0 Y0 X1 Y1 X2 •	S/S UP0 X0 ZP0 X1 Y0 X2 Y1 Y2 Y2
DVP26SE11T	14		12	Transistor (NPN)	X3 C1 X4 Y3 X5 Y4 X6 Y5 X7 C2	X1 Y0 Y1 X2 Y1 X3 Y3 X4 Y4 X5 Y5 X6 Y6 X7 Y7	
DVP26SE11S				Transistor (PNP)	X10 X11 Y7 X12 X13 X14 X15 Y11 Y12 Y13	X10 X11 X12 X13 X14 Y11 X15 Y12 Y13 •	

Dimension & Installation

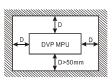
Please install the PLC in an enclosure with sufficient space around it to allow heat dissipation, See [Figure 3].

- Direct Mounting: Use M4 screw according to the dimension of the product.
- DIN Rail Mounting: When mounting the PLC to 35mm DIN rail, be sure to use the retaining clip to stop any side-to-side movement of the PLC and

reduce the chance of wires being loose. The retaining clip is at the bottom of the PLC. To secure the PLC to DIN rail, pull down the clip, place it onto the rail and gently push it up. To remove the PLC, pull the retaining clip down with a flat screwdriver and gently remove the PLC from DIN rail.

Wiring

- Use 22-16AWG (1.5mm) single or multiple core wire on I/O wiring terminals. See the figure in the right hand side for its specification. PLC terminal screws should be tightened to 1.90 kg-cm (1.65 in-lbs) and please use only 60/75°C copper conductor.
- DO NOT wire empty terminal. DO NOT place the I/O signal cable in the same wiring circuit.
- DO NOT drop tiny metallic conductor into the PLC while screwing and wiring. Tear off the sticker on the heat dissipation hole for preventing alien substances from dropping in to ensure normal heat dissipation of the PLC.



[Figure 3]



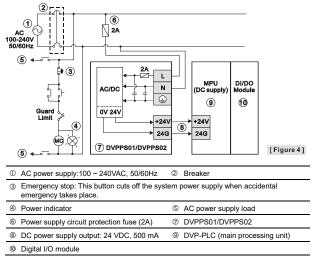
Power Supply

The power input of DVP-SE is DC. When operating DVP-SE please note the following points:

- The power is connected to two terminals, 24 VDC and 0 V, and the range of power is 20.4 to 28.8 VDC. If the power voltage is less than 17.5 VDC, the PLC will stop running, all outputs will go "Off", and the ERROR indicator will start to blink continuously.
- 2. The power shutdown for less than 10ms will not affect the operation of the PLC. However, the shutdown time that is too long or the drop of power voltage will stop the operation of the PLC, and all outputs will go off. When the power returns to normal status, the PLC will automatically resume the operation. (Please take care of the latched auxiliary relays and registers inside the PLC when doing the programming).

Safety Wiring

Since DVP-SE is only compatible with DC power supply, Delta's power supply modules (DVPPS01/DVPPS02) are the suitable power supplies for DVP-SE. We suggest you install the protection circuit at the power supply terminal to protect DVPPS01 or DVPPS02. See the figure below.



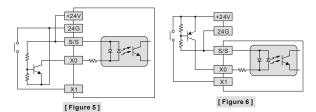
Input Point Wiring

There are 2 types of DC inputs, SINK and SOURCE. (See the example below. For detailed point configuration, please refer to the specification of each model.)

DC Signal IN – SINK mode

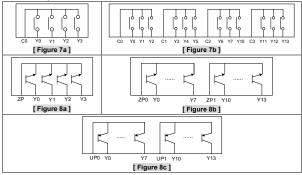
Input point loop equivalent circuit

• DC Signal IN – SOURCE mode Input point loop equivalent circuit

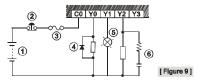


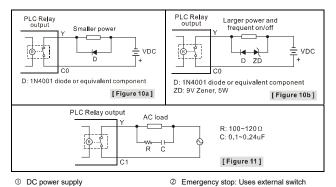
Output Point Wiring

- DVP-SE has three output modules on it, relay, transistor NPN and PNP. Be aware of the connection of shared terminals when wiring output terminals.
- Relay output terminals, Y0 to Y3 of relay models use C0 common port. See [Figure 7a]. For the common port configuration of 26SE11R models, see [Figure 7b]. When the output points are enabled, their corresponding indicators on the front panel will be on.
- Transistor output terminals, Y0 to Y3 of transistor (NPN) models use UP, ZP common port. Refer to [Figure 8a], [Figure 8b] and [Figure 8c] for the configuration of 12SE-T, 26SE-T and 26SE-S models.



- Isolation circuit: The optical coupler is used to isolate signals between the circuit inside PLC and output modules.
- Relay (R) output circuit wiring





③ Fuse: 5 to10A fuse at the shared terminal of output contacts to protect the output circuit

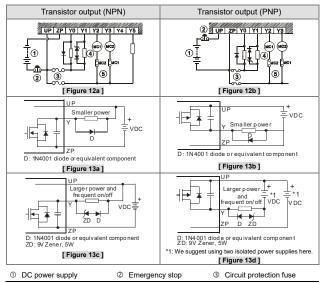
④ Transient voltage suppressor (SB360 3A 60V): Extends the life span of contact.

1. Diode suppression of DC load: Used when in smaller power [Figure 10a]

- 2. Diode + Zener suppression of DC load: Used when in larger power and frequent On/Off [Figure 10b]
- Incandescent light (resistive load)

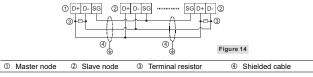
6 Absorber: Reduces the interference on AC load [Figure 11]

Transistor output circuit wiring



- The output of the transistor model is "open collector". If Y0/Y1 is set to pulse output, the output current has to be bigger than 0.1 A to ensure normal operation of the model.
 - 1. Diode suppression: Used when in smaller power [Figure 13a] and [Figure 13b].
 - 2. Diode + Zener suppression: Used when in larger power and frequent On/Off [Figure 13c] and [Figure 13d]. Please be noticed that it is suggested to use two isolated power supplies(*1) in [Figure 13d].
- S Manually exclusive output: For example, Y2 and Y3 control the forward running and reverse running of the motor, forming an interlock for the external circuit, together with the PLC internal program, to ensure safe protection in case of any unexpected errors.

RS-485 Wiring



Note:

1. Terminal resistors are suggested to be connected to master and the last slave with resistor value of 1200

2. To ensure communication quality, please apply double shielded twisted pair cable (20AWG) for wiring.

Ethernet (RJ45) Wiring

Please use the twisted pair CAT-5e to connect the Ethernet RJ45 communication port.

	① Tx+	© N/C	
55466000	@ Tx-	6 Rx-	_
	3 Rx+	⑦ N/C	_
81	④ N/C	® N/C	_

Note: The DVP-SE series PLC is equipped with the Auto MDI/MDIX function. It does not need any jumper wire when it connects to the network device.

Setting the Ethernet

The DVP-SE series PLC contains a built-in Ethernet communication port. Users have to set the network parameter before the PLC connects to other network devices. The default parameter setting values are 192.168.1.5 (the IP address) and 255.255.255.0 (the subnet mask). Users can set the parameter by using DCISoft, or by using the PLC program to write the values into the network control register (CR).

- Software: Start the DCIsoft, and connect the PC to the DVP-SE series PLC through the ehternet cable. Enter "Communication Setting" page in DCISoft, and choose "Ethernet" communication port. Then, click "Search" to search for the picture representing the DVP-SE series PLC. After users click the picture twice, the setting page appears. Finally, enter the related parameters, and click "Apply" to finish the setting.
- PLC program: Users use the instruction "To" to write the IP address (CR#88, 89) and the subnet mask (CR#90, 91). For example, when the IP address is 192.168.1.5, users write 192.168 (H'COA8) into CR#89, and .1.5 into CR#88 (H'105).

Note: When users use the instruction "From/To" to read the data from the network control register and write the data into it, the module number is K108.

Precision of the RTC (Second/Month)

Temperature (°C/°F)	0/32	25/77	55/131
Maximum error (Second)	-117	52	-132

Duration in which the RTC is latched: Two weeks