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Automation

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Automation

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Programmable Logic Controllers (PLCs) - SS2/SA2 series

The **Delta DVP series** Programmable Logic Controllers (PLCs) offer high-speed, stable, and highly reliable control in various industrial automation applications. In addition to fast logic operation, bountiful instructions and multiple function cards, the cost-effective DVP-PLC supports various communication protocols. The DVP-SS2 series is an economical and compact model.

The module-type unit affords tremendous space-saving, allowing simple, clip-on expansion possibilities. The PLC's 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
- Software: ISPSOFT
- Plug-in terminals for ease of wiring and maintenance
- Built-in high-speed counters up to 100 kHz (*model dependent*)
- Compact dimensions (H) 90 mm x (D) 60 mm - DIN-rail mounting
- Clip-on extension modules - general (*right-side*) - high-speed (*left-side*) **SA2 only**
- Supports Modbus RS485: Can connect up to 16 slave devices (VFD, temp controller, PLC)
- Program language: (IL) Instruction list, (LD) Ladder diagram, (SFC) Sequential function chart

type	supply	inputs outputs		description	output type	price
		(DI)	(DO)			

SS2 series - Economic, compact ultra-slim PLC (H) 90 x (D) 60 mm

The compact and economic DVP-SS2 series slim-type PLC provides basic sequential control functions with fast execution speed and enhanced real-time monitoring capability. For use in applications such as textile machines, conveyor belts and winding machines.

Accepts - general (*right-side*) expansion modules only

- Ultra-slim: 25.2 mm
- Max. I/O: 480 points
- Data register: 5k words
- Program capacity: 8k steps
- Built-in RS-232 and RS-485 ports (*Master/Slave*)
- Max. execution speed of basic instructions: 0.35 µs
- Supports standard MODBUS ASCII / RTU protocol and PLC Link function

Motion control functions:

- 8 points of high-speed counters: 20 kHz / 4 points, 10 kHz / 4 points
- 4 x 1-phase counters @ 10kHz or 2 x A/B counters @ 20kHz

DVP14SS211R	24 VDC	8	6	compact ultra-slim PLC	relay	2 770.00
DVP14SS211T	24 VDC	8	6	compact ultra-slim PLC	transistor (NPN)	2 770.00
DVP12SS211S	24 VDC	8	4	compact ultra-slim PLC	transistor (PNP)	2 770.00

SA2 series - Advanced compact slim PLC (H) 90 x (D) 60 mm

DVP-SA2 series offers larger program capacity and execution efficiency, offering 100 kHz high-speed output and counting functions. It is expandable with DVP-S series left-side and right-side extension modules. For use in applications such as printing machines, drying machines, container fillers and workstation monitoring in the production line.

DVP12SA supports general (*right-side*) and high-speed (*left-side*) expansion modules

DVP28SA supports general expansion modules (*right-side*) only

- Data register: 10k words
- Program capacity: 16k steps
- Ultra-slim: DVP12SA... / 37.4 mm wide
- Ultra-slim: DVP28SA... / 46 mm wide
- Max. execution speed of basic instructions: 0.35 µs
- Built-in 1 x RS-232 and 2 x RS485 ports (*12SA only*)
- Supports standard Modbus ASCII / RTU protocol and PLC Link function
- No battery required: RTC function operates for up to 15 days after power off

Motion control 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 outputs		description	output type	price
		(DI)	(DO)			
DVP12SA211R	24 VDC	8	4	advanced slim PLC	relay	3 920.00
DVP12SA211T	24 VDC	8	4	advanced slim PLC	transistor (NPN)	3 920.00
DVP28SA211R*	24 VDC	16	12	advanced slim PLC	relay	4 510.00
DVP28SA211T*	24 VDC	16	12	advanced slim PLC	transistor (NPN)	4 510.00

* Right-hand side expansion only, 1 x RS485 port

Programming cables, see communication cables for PLCs and HMI's page

Programmable logic controllers (slim-type)



DVP12SE11R



DVP28SV3...



DVP20SX3...



Programmable Logic Controllers (PLCs) - SE/SV3/SX3 series

Delta DVP series PLCs now expanded to include the new 3rd generation of SX3 and SV3 PLCs delivering more innovative products while meeting the requirements of various applications. Delta PLCs offer a broad range of controllers and modules featuring high-performance CPUs, multiple built-in functions and efficient program editing tools.

In addition to the user-friendly programming software (DIADesigner) and faster execution speed, Delta provides complete industry-focused motion control and industrial fieldbus solutions with new 3rd generation PLC series.

- Compact dimensions - DIN-rail mounting
- Clip-on extension modules - general (*right-side*) - high-speed (*left-side*)

type	supply	digital		analog		description	output type	price
		inputs	outputs	inputs	outputs			

SE series - Network type slim PLC built-in Ethernet (H) 90 x (D) 60 mm

Most complete network type slim PLC in the industry.

Typical applications include remote device monitoring, production line monitoring, building automation, printing machines and container fillers.

- Program capacity: 16k steps Data register: 12k words
- Software: ISPSoft
- Ultra slim: **DVP12SE** - 37.4 mm / **DVP26SE** - 46 mm wide
- No battery required: RTC function operates for up to 15 days after power off
- 2 x RS485 ports, Ethernet port supports Modbus TCP and EtherNet/IP (*explicit message*)

DVP12SE11R	24 VDC	8	4	—	—	network type PLC	relay	6 550.00
DVP12SE11T	24 VDC	8	4	—	—	network type PLC	transistor (NPN)	6 550.00
DVP26SE11R*	24 VDC	14	12	—	—	network type PLC	relay	7 340.00
DVP26SE11T*	24 VDC	14	12	—	—	network type PLC	transistor (NPN)	7 340.00

* Right-hand side expansion only, 1 x RS485 port, supports Ethernet/IP adaptor

SV3/SX3 series - High performance slim PLC (H) 90 x (D) 60 mm

SV3/SX3 series 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: 64k steps Data register: 64k words
- Software: DIADesigner
- Execution speed: 25 ns, support AS APIs
- Delta special driver: Controls 8 Delta servos and 8 Delta motor drives via CANopen
- Built-in mini USB, Micro SD card, 2x RS-485 com ports, CANbus port
- Supports EtherNet/IP, Modbus TCP, CANopen DS301 (*controls up to 64 slaves*)
- Motion control functions high-speed pulse output: 4 axes of 200 kHz pulse output

DVP28SV311R	24 VDC	16	12	—	—	high perform. PLC	relay	8 610.00
DVP28SV311T	24 VDC	16	12	—	—	high perform. PLC	transistor (NPN)	8 610.00
DVP28SV311S	24 VDC	16	12	—	—	high perform. PLC	transistor (PNP)	8 610.00

SX3 series - Analog I/O slim PLC with highly efficient PID control

The **SX3** series is a compact PLC with built-in analog functions.

- Built-in 4 analog inputs / 2 analog outputs (*12-bit resolution*)

DVP20SX311R	24 VDC	8	6	4	2	analog PLC	relay	8 610.00
DVP20SX311T	24 VDC	8	6	4	2	analog PLC	transistor (NPN)	8 610.00
DVP20SX311S	24 VDC	8	6	4	2	analog PLC	transistor (PNP)	8 610.00

SV3/SX3 - Delta's new 3rd Gen. PLC

- Enhance your machinery with the Delta DVP 3rd generation PLC, featuring a more powerful CPU, expanded program capacity and advanced communication capabilities.



1. Powered by Delta 32 bit CPU 64k steps, supported in DIADesigner
2. SD card support for data logging and PLC program backup
3. Ethernet port for Industrial communication, Ethernet/IP / ModbusTCP
4. Built-in CANopen / CANbus



PLC slim-type accessories



DVP08SM11N



DVP04DA-S2



DVP04PT-S



DVP02TK...

DVP02TU...



DVPDT01-S

Extension modules for SS/SA/SE/SX/SV/MC PLCs

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

General extension modules (right-side mounting)

type	supply	inputs	outputs	description	output type	price
		(DI)	(DO)			

Digital input extension modules

DVP08SM11N	24 VDC	8	—	extension module	—	1 220.00
DVP16SM11N	24 VDC	16	—	extension module	—	2 030.00
DVP32SM11N*	24 VDC	32	—	extension module	—	2 610.00
UB-10-ID32A	MIL con	32		terminal module for above	DVP32SM	1 190.00
UC-ET010-24A	MIL con	1 met		I/O connection cable for above	DVP32SM/SN	601.00

Digital output extension modules

DVP06SN11R	24 VDC	—	6	extension module	relay (6A)	2 420.00
DVP08SN11R	24 VDC	—	8	extension module	relay (1.5A)	1 820.00
DVP08SN11T	24 VDC	—	8	extension module	transist (NPN)	1 820.00
DVP16SN11T	24 VDC	—	16	extension module	transist (NPN)	2 490.00
DVP16SN11TS	24 VDC	—	16	extension module	transist (PNP)	2 490.00
DVP32SN11TN*	24 VDC	—	32	extension module	transist (NPN)	2 870.00

* Pinhead terminations, see page C-18

Digital I/O extension modules

DVP08SP11R	24 VDC	4	4	extension module	relay (1.5A)	1 900.00
DVP16SP11R	24 VDC	8	8	extension module	relay (1.5A)	2 010.00
DVP08SP11T	24 VDC	4	4	extension module	transist (NPN)	1 900.00
DVP16SP11T	24 VDC	8	8	extension module	transist (NPN)	2 110.00
DVP16SP11TS	24 VDC	8	8	extension module	transist (PNP)	2 270.00

Analog I/O extension modules ±10V / ±20mA (output: 0 to 10V or 0/4 to 20 mA)

• Built-in RS-485 interface		(AI)	(AO)			
DVP04AD-S2	24 VDC	4	—	extension module	—	4 110.00
DVP06AD-S	24 VDC	6	—	extension module	—	4 450.00
DVP04DA-S2	24 VDC	—	4	extension module	analog	6 230.00
DVP06XA-S2	24 VDC	4	2	extension module	analog	4 610.00

Temperature measurement modules

• Resolution:	0.1°C	inputs	outputs		sensor	
DVP04PT-S*	24 VDC	4	—	RTD temperature module	PT100/1000	4 940.00
DVP06PT-S	24 VDC	6	—	RTD temperature module	PT100/1000	5 780.00
DVP04TC-S*	24 VDC	4	—	thermocouple temp. module	(J,K,R,S,T)	4 950.00

* Built-in RS-485 interface for stand-alone applications

DVP02 series - Temperature control modules (universal input)

DVP02 series offers reliable and flexible integration into complex automation systems, ensuring accurate and optimal temperature regulation.

- Analog inputs: 0 - 10V, 0 - 5V, 0 - 50mV, 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
- Control modes: Built-in PID program control / manual control
- RTD: Pt100, JPt100, Pt1000, Cu50, Cu100, Ni100, Ni1000, LG-Ni1000
- Configuration: Using TKSoft (embedded in ISPSoft)

DVP02TK series - Built-in RTU-485

		(AI)	(AO)			
DVP02TKL-S	24 VDC	2	2	analog output	voltage/current	4 140.00
DVP02TKN-S	24 VDC	2	—	NPN output	4 x digital out	4 060.00
DVP02TKR-S	24 VDC	2	—	relay output	4 x digital out	4 060.00

DVP02TU series

- Expandable: Expansion module for DVP02TK Series (Max. 8 modules)

DVP02TUL-S	24 VDC	2	2	analog output	voltage/current	3 380.00
DVP02TUN-S	24 VDC	2	—	NPN output	4 x digital out	3 380.00
DVP02TUR-S	24 VDC	2	—	relay output	4 x digital out	3 380.00

Positioning control module (single axis, 200kHz)

DVP01PU-S	single-axis, 200kHz			servo/stepper position control module		6 730.00
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Communication modules

DVPDT01-S	DeviceNet			slave communication module		6 480.00
DVPPF01-S	PROFIBUS-DP			slave communication module		9 860.00

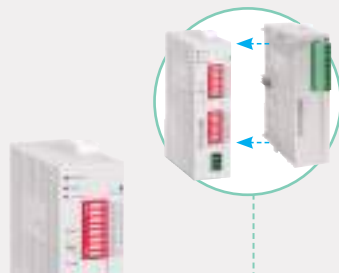
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PLC slim-type accessories

EtherCAT



DVP202LC-SL



RTU-485



RTU-ECAT



DVP08ST11N

High-speed extension modules for SA/SE/SX/SV PLCs (left-side mount)

Extension modules simply clip onto CPUs to add many additional functions, additional analog I/Os, communication and load cell monitoring.

- Simply clips onto and derives supply from main the CPU - analogue cards require separate supply

type	supply	inputs		description	output type	price
		(AI)	(AO)			

Analog I/O extension modules (left-side high-speed)

- Signal range: Input: 1- 5V, 0- 5V, $\pm 5V$, 0- 10V, $\pm 10V$, 4- 20mA, 0- 20mA, $\pm 20mA$
Output: 0- 10V, $\pm 10V$, 4- 20mA, 0- 20mA
- Resolution: 16-bit
- Conversion time: 250 μs / Channel

DVP04AD-SL	24 VDC	4	—	extension module	—	5 650.00
DVP04DA-SL	24 VDC	—	4	extension module	analog	8 090.00

Load cell modules (left-side high-speed)

- Resolution: 24-bit
- Measurable range: 0 - 80mV/V
- Connectable to: 4-wire / 6-wire load cell sensor
- Easy to use LCSof for configuration and monitoring load cell module (RS-232, RS-485)
- DVP211LC-SL has programmable DI/O (tare, max etc.) and AO (retransmission)

DVP201LC-SL	24 VDC	1	—	load cell input module	—	5 870.00
DVP211LC-SL	24 VDC	1	1	load cell input module	2DI / 4DO	9 160.00
DVP202LC-SL	24 VDC	2	—	load cell input module	—	8 270.00

Communication modules (left-side high-speed)

DVPEN01-SL	Ethernet / Modbus TCP	communication module	10/100Mbps	6 560.00
DVPDNET-SL	DeviceNet	communication module	500kbps	6 520.00
DVPCOPM-SL	CANopen	communication module	1Mbps	6 520.00
DVPSCM12-SL	RS-485/RS-422	serial communication module	460kbps	7 720.00
DVPSCM52-SL	BACnet MS/TP	slave communication module	460kbps	15 900.00

Remote I/O communication modules

RTU-485	Modbus RS-485	max. 8 special modules and 128DI and 128DO	2 640.00
RTU-EN01	Modbus TCP/IP	max. 8 special modules and 128DI and 128DO	7 950.00
RTU-PD01	PROFIBUS-DP	max. 8 special modules and 128DI and 128DO	10 600.00
RTU-ECAT	EtherCAT	max. 8 special modules and 128DI and 128DO	3 960.00

Accessories for S series PLCs

Power supply modules (DIN-rail mounting)

	input	output		
DVPPS01	100-240 VAC	24 VDC 1A	power supply module	895.00
DVPPS02	100-240 VAC	24 VDC 2A	power supply module	1 160.00
DVPPS05	100-240 VAC	24 VDC 5A	power supply module	2 140.00

Accessories and cables

UC-PRG020-12A	8-pin mini-DIN+female DB9 connector to USB (type A) connector	2 meter	959.00
UC-PRG030-01A	mini USB connector to USB (type A) connector	3 meter	242.00
UC-MS030-01A	8-pin mini-DIN connector to female DB9 connector RS-232	3 meter	216.00
IFD6500	RS-485 to USB (type A) converter module		1 080.00
DVP08ST11N	8-point input selector switch module for DVP-S series		2 180.00
DVPPCC01	program-data backup memory card for all DVP series (64k words)		1 970.00

DIAStudio

Smart Machine Suite

DIAStudio is a unified engineering platform by Delta that streamlines automation system development. It integrates programming, parameter configuration, and HMI programming, simplifying processes and saving time and costs for machine makers.



Scan to learn more

Programmable logic controllers (brick-type)



DVP32ES300R



DVP36EX300R



DVP16XP211T

DVP PLC ES3/EX3 series is the latest version of Delta's brick-type PLC range. Features include a new, enhanced processing unit, larger programming capacity and multiple communication ports with robust network functions and compatibility with DIASudio. Compared with the previous generation, the ES3 series offers a larger capacity, faster execution speed, and enhanced interoperability.

Common characteristics:

- 32-bit CPU for high-speed processing
- Program capacity: 64k steps
- Software: DIADesigner / ISPSOft
- Min. execution time of basic instruction: 25ns
- Built-in Ethernet port, 2x RS-485 ports, USB port, CANopen port, Micro SD card interface.
- Supports EtherNet/IP, Modbus TCP, CANopen DS301 (64 Devices)
- Removable terminal blocks

Data register: 64k words
DIADesigner / ISPSOft

Excellent motion control:

- High-speed counter: 200 kHz x 4 (*A/B phase*)
- High-speed pulse out: 200 kHz x 4 (*pulse + direction*)
- 2-axis interpolation (*linear and arc*)
- 8 axes CANopen point-to-point motion control (*with Delta servo drives only*)

type	supply	inputs (DI)	outputs (DO)	width (mm)	description	output type	price
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ES3 series - Brick-type PLC 230 VAC (H) 90 x (D) 78 mm

Delta's third generation DVP ES3 series employs the AS series PLCs 32-bit high-speed processor, provides a user-friendly programming interface, 4-high-speed counter inputs, and up to 4-axis control outputs (*pulse*).

Applications:

Packaging machines, precision textile machines, large-scale warehousing, logistics systems etc...

Relay output

DVP32ES300R	100-240 VAC	16	16	165	brick-type PLC	relay	10 100.00
DVP48ES300R	100-240 VAC	24	24	216	brick-type PLC	relay	10 900.00
DVP64ES300R	100-240 VAC	32	32	267	brick-type PLC	relay	12 100.00
DVP80ES300R	100-240 VAC	40	40	310	brick-type PLC	relay	14 300.00

Transistor output

DVP32ES300T	100-240 VAC	16	16	165	brick-type PLC	transist (NPN)	10 100.00
DVP48ES300T	100-240 VAC	24	24	216	brick-type PLC	transist (NPN)	10 900.00
DVP64ES300T	100-240 VAC	32	32	267	brick-type PLC	transist (NPN)	12 100.00
DVP80ES300T	100-240 VAC	40	40	310	brick-type PLC	transist (NPN)	14 300.00

EX3 series - Analog I/O PLC 230 VAC (H) 90 x (D) 78 mm

Delta's third generation DVP EX3 series employs the AS series PLCs 32-bit high-speed processor with a user-friendly programming interface, built-in analog I/O, and multiple communication ports.

Applications:

Processing machines, injection moulding machines, packaging machines, precision textile machines.

- Built-in 2 x 12-bit analog inputs and 2 x 12-bit analog outputs (DVP36EX)
- Built-in PID auto-tuning function, offering a complete analog control solution

					AI	AO		
DVP22EX300R	100-240 VAC	12	8	165	2	—	relay	11 500.00
DVP36EX300R	100-240 VAC	16	16	216	2	2	relay	16 300.00
DVP22EX300T	100-240 VAC	12	8	165	2	—	transist (NPN)	11 500.00
DVP36EX300T	100-240 VAC	16	16	216	2	2	transist (NPN)	16 300.00

I/O extension modules for ES/EX series (H) 90 x (D) 78 mm

- Plugs directly into PLC - 24 VDC - supply derived from MPU (*limited to 12W*)

Digital input/output modules

DVP08XM211N	24 VDC	8	—	45	expansion module	—	1 520.00
DVP16XM211N	24 VDC	16	—	70	expansion module	—	2 710.00
DVP08XN211R	24 VDC	—	8	45	expansion module	relay	2 460.00
DVP16XN211R	24 VDC	—	16	70	expansion module	relay	3 820.00
DVP08XP211R	24 VDC	4	4	45	expansion module	relay	1 960.00
DVP16XP211R	24 VDC	8	8	70	expansion module	relay	3 630.00
DVP08XN211T	24 VDC	—	8	45	expansion module	transist (NPN)	2 460.00
DVP16XN211T	24 VDC	—	16	70	expansion module	transist (NPN)	3 820.00
DVP08XP211T	24 VDC	4	4	45	expansion module	transist (NPN)	1 960.00
DVP16XP211T	24 VDC	8	8	70	expansion module	transist (NPN)	3 630.00

PLC brick-type accessories



DVP24XN...



DVP04AD-E2



DVP04PT-E2



DVP16EC00R3



DVPCC01

I/O extension modules for ES and EX

- Plugs directly into PLC - 24 VDC - supply derived from MPU (*limited to 12W*)

type	supply	inputs (DI)	outputs (DO)	width (mm)	description	output type	price
I/O 24/32 modules for ES/EX series - 230 VAC power supply required (H) 90 x (D) 78 mm							
Incorporates 24 VDC output supply 100mA (2.4W) for other modules							
DVP24XN200R	24 VDC	—	24	145	expansion module	relay	5 300.00
DVP24XP200R	24 VDC	16	8	145	expansion module	relay	4 580.00
DVP32XP200R	24 VDC	16	16	145	expansion module	relay	6 010.00
DVP24XN200T	24 VDC	—	24	145	expansion module	transist (NPN)	5 300.00
DVP24XP200T	24 VDC	16	8	145	expansion module	transist (NPN)	4 580.00
DVP32XP200T	24 VDC	16	16	145	expansion module	transist (NPN)	6 010.00

Analog I/O extension modules for ES/EX series

(H) 90 x (D) 78 mm

Analog extension modules for ES/EX series

- Analog input: Voltage: ($\pm 10V$, $\pm 5V$) / Current: ($\pm 20mA$, 0 - 20mA, 4 - 20mA)
- Analog output: Voltage: ($\pm 10V$) / Current: (0 - 20mA, 4 - 20mA)
- Resolution: 14-bit

		AI	AO				
DVP04AD-E2	24 VDC	4	—	70	expansion module	analog inputs	4 240.00
DVP02DA-E2	24 VDC	—	2	70	expansion module	analog outputs	4 940.00
DVP04DA-E2	24 VDC	—	4	70	expansion module	analog outputs	5 910.00
DVP06XA-E2	24 VDC	4	2	70	expansion module	analog I/O	5 910.00

Temperature measurement modules for ES/EX

(H) 90 x (D) 78 mm

RTD

Pt100, Pt1000, Ni100, Ni1000 - sensor input / 0-300 Ω resistance input

- Resolution: 16-bit
- With PID temperature control

DVP04PT-E2	24 VDC	4 points	70	resistance Pt100/1000, Ni100/1000	5 480.00
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Thermocouple

type J, K, R, S, T, E, N - sensor input / -80mV...+80mV voltage input

- Resolution: 20-bit
- With PID temperature control

DVP04TC-E2	24 VDC	4 points	70	thermocouple J,K,R,S,T,E,N	5 480.00
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DVP-EC3 economic series PLC

230 VAC

(H) 90 x (D) 78 mm

DVP-EC3 series is the most economical solution for sequential control and communication monitoring for smaller applications with simple RS-485/MODBUS communication.

- Program capacity: 4k steps
- Mounting: DIN-rail or chassis mounting
- Built-in high-speed counters: 20 kHz x 2 / 10kHz x 2 (*single phase*) or 4kHz x 1 (*A/B phase*)
- MPU I/O points: 10/16/24/32/40 points (*not expandable*)
- COM ports: built-in RS-232 & RS-485 (*only for 16/24/32/40 points*)

type	supply	inputs (DI)	outputs (DO)	width (mm)	description	output type	price
DVP-EC3 - Economic series PLC							
DVP10EC00R3	100-240 VAC	6	4	95	standard econo PLC	relay	3 430.00
DVP16EC00R3	100-240 VAC	8	8	95	standard econo PLC	relay	4 250.00
DVP24EC00R3	100-240 VAC	12	12	150	standard econo PLC	relay	5 240.00
DVP32EC00R3	100-240 VAC	16	16	150	standard econo PLC	relay	6 120.00
DVP40EC00R3	100-240 VAC	24	16	164	standard econo PLC	relay	6 820.00

Accessories for DVP-ES/EX/EC PLC

DVPCC01	program-data backup memory card	DVP with RS232	(64k words)	1 970.00
UC-PRG020-12A	mini-DIN to USB (type-A)	programming cable	2 m	959.00
UC-MS030-01A	male mini-DIN to female DB9	programming cable	3 m	216.00
DVPAEXT01-E2	extends distance between I/O modules		DVP-ES/EX	2 200.00



Programmable logic controllers (mid-range)



New



AS164...



AS228R-A



New



AX-304ELA0MA1P

The AS series - Compact modular mid-range PLC

The AS series is a high-performance multi-purpose controller designed for all types of automated equipment. It features 32-bit SoC CPUs for enhanced execution speed (40k steps/ms), supporting up to 32 extension modules or up to 1,024 inputs/outputs. Providing accurate positioning control for up to 8 axes via CANopen motion network and 6 axes via pulse control (200kHz). Widely used in diverse automated equipment, electronics manufacturing, labelling, food packaging, and textile machines.

Equipped with CANopen and EtherNet/IP network communication for high-speed data transmission. The professional yet simple editing software DIADesigner delivers quick hardware and network configuration with built-in function blocks for different industries with multi-layer password protection for enhanced system security.

- 32-bit CPU for high-speed processing
- Max. execution speed of basic instructions: 25 ns
- Built-in mini USB, micro SD slot RS-232 / 2 x RS-485 com ports (*Master/Slave*), Ethernet IP (*Adaptor and scanner*)
- Rackless design (no-backplane) direct DIN-rail mounting, patented DIN-rail clips for fast module installation

type	supply	digital		analog		description	output type	price
		inputs	output	inputs	output			

AS100 series - CPU (64k steps / 64k words) (H) 88 x (W) 156/207/250 x (D) 75mm

- Communication ports: USB, Ethernet, 2 x RS-485, CANopen
- PLC width: **AS13 (156 mm) / AS14 (207 mm) / AS16 (250 mm)**

AS132R-A	100-240 VAC	16	16	—	—	AS100 CPU module	relay	11 700.00
AS132P-A	100-240 VAC	16	16	—	—	AS100 CPU module	transist (PNP)	11 700.00
AS148R-A	100-240 VAC	24	24	—	—	AS100 CPU module	relay	13 700.00
AS148P-A	100-240 VAC	24	24	—	—	AS100 CPU module	transist (PNP)	13 700.00
AS164R-A	100-240 VAC	32	32	—	—	AS100 CPU module	relay	15 700.00
AS164P-A	100-240 VAC	32	32	—	—	AS100 CPU module	transist (PNP)	15 700.00

AS200 series - CPU (64k steps / 64k words) (H) 88 x (W) 88 x (D) 96mm

- Communication ports: USB, Ethernet, 2 x RS-485, CANopen
- Plug-in terminals: Screwless (*push-in*) terminals for ease of wiring and maintenance

AS228R-A	24 VDC	16	12	—	—	AS200 CPU module	relay	10 600.00
AS228T-A	24 VDC	16	12	—	—	AS200 CPU module	transist (NPN)	10 600.00
AS228P-A	24 VDC	16	12	—	—	AS200 CPU module	transist (PNP)	10 600.00
AS218RX-A	24 VDC	8	6	2	2	AS200 CPU module	relay	10 600.00
AS218TX-A	24 VDC	8	6	2	2	AS200 CPU module	transist (NPN)	10 600.00
AS218PX-A	24 VDC	8	6	2	2	AS200 CPU module	transist (PNP)	10 600.00

AS300 series CPU (128k steps / 64k words) (H) 88 x (W) 88 x (D) 96mm

- Communication ports: USB, Ethernet, 2 x RS-485, (*accepts 2 x AS-F function cards*)
- Plug-in terminals: Screwless (*push-in*) terminals for ease of wiring and maintenance

AS300N-A	24 VDC	—	—	—	—	AS300 CPU module	—	7 410.00
AS320T-B	24 VDC	8	12	—	—	AS300 CPU module	transist (NPN)	10 600.00
AS320P-B	24 VDC	8	12	—	—	AS300 CPU module	transist (PNP)	10 600.00
AS332T-A*	24 VDC	16	16	—	—	AS300 CPU module	transist (NPN)	13 000.00
AS332P-A*	24 VDC	16	16	—	—	AS300 CPU module	transist (PNP)	13 000.00
AS324MT-A♦	24 VDC	12	12	—	—	AS300 CPU module	differential type	13 000.00

* Highdensity MIL terminal block, see page **C-18**

♦ 2 axes 4MHz + 4 axes 200kHz output / 2 channels 4MHz + 4 channels 200kHz input

AX-3 CODESYS solution (8MB program capacity)

- Communication ports: USB, RS-232/485, Ethernet (*switch*), EtherCAT (**AX-3xxE only**)
- Built-in encoder interface: 2 x Incremental encoder / 1 x SSI absolute encoder
- Pulse train interface: 200kHz pulse output: 4 axes / 200kHz high-speed counters: 6 CHs
- Basic instruction: 5 ns
- Plug-in terminals: Screwless (*push-in*) terminals for ease of wiring and maintenance

AX-300NA0PA1	24 VDC	—	—	—	—	AX3 CPU module	transist (PNP)	18 900.00
AX-324NA0PA1P	24 VDC	16	8	—	—	AX3 CPU module	transist (PNP)	22 400.00

EtherCAT CPU

AX-304ELA0MA1P	24 VDC	16	8	—	—	4 axes P2P CPU	transist (PNP)	22 400.00
AX-308EA0MA1T	24 VDC	16	8	—	—	8 axes AX3 CPU	transist (NPN)	31 000.00

AX-8 motion control system (1GB program capacity)

- Motion control: Supports up to 16 Delta EtherCAT servos (*min. sync time: 1ms/ 16 axes*)
- Motion commands: Position, velocity, torque, multi-axis interpolation, E-gear, E-CAM, G-code
- Communication ports: USB, Ethernet, RS232, RS485, EtherCAT, Profinet slave
- Built-in encoder interface: 1 x incremental encoder / 1 x SSI absolute encoder

AX-816EP0CB1P	24 VDC	8	8	—	—	16 axes AX8 CPU	transist (PNP)	51 200.00
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Up to 128 axes on request

PLC mid-range accessories



AS series - Input/output (I/O) modules and accessories

Includes digital I/O modules (*output/input/mix*), analog I/O modules (*output/input/mix*), temperature measurement modules, load cell modules, communication modules and function cards.

type	supply	inputs	output	module width	description	output type	price
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Digital I/O modules (H) 88 x (D) 92 mm

- Plug-in, screwless (*push-in*) terminals (32 and 64 I/O modules have high-density MIL connectors)

Input modules

AS08AM10N-A	24 VDC	8 DI	—	25 mm	digital input module	—	1 480.00
AS16AM10N-A	24 VDC	16 DI	—	35 mm	digital input module	—	3 140.00
AS32AM10N-A*	24 VDC	32 DI	—	25 mm	digital input module	—	4 710.00
AS64AM10N-A*	24 VDC	64 DI	—	35 mm	digital input module	—	7 010.00

Digital output modules

AS08AN01R-A	24 VDC	—	8 DO	25 mm	digital output mod.	relay (2A)	2 220.00
AS08AN01T-A	24 VDC	—	8 DO	25 mm	digital output mod.	transist (NPN)	2 220.00
AS08AN01P-A	24 VDC	—	8 DO	25 mm	digital output mod.	transist (PNP)	2 220.00
AS16AN01R-A	24 VDC	—	16 DO	35 mm	digital output mod.	relay (2A)	3 330.00
AS16AN01T-A	24 VDC	—	16 DO	35 mm	digital output mod.	transist (NPN)	3 330.00
AS16AN01P-A	24 VDC	—	16 DO	35 mm	digital output mod.	transist (PNP)	3 330.00
AS32AN02T-A*	24 VDC	—	32 DO	25 mm	digital output mod.	transist (NPN)	4 900.00
AS64AN02T-A*	24 VDC	—	64 DO	35 mm	digital output mod.	transist (NPN)	7 390.00

* High-density MIL terminal block, see page C-18

Digital mixed I/O modules

AS16AP11R-A	24 VDC	8 DI	8 DO	35 mm	digital I/O mod.	relay (2A)	3 140.00
AS16AP11T-A	24 VDC	8 DI	8 DO	35 mm	digital I/O mod.	transist (NPN)	3 140.00
AS16AP11P-A	24 VDC	8 DI	8 DO	35 mm	digital I/O mod.	transist (PNP)	3 140.00

Analog I/O modules (H) 88 x (W) 35 x (D) 95 mm

- Single channel on/off setting to enhance overall conversion efficiency
- Wire break detection at 1-5V and 4-20mA
- Voltage in:** 1-5V, 0-5V, -5...5V, 0-10V, -10...10V **Current in:** 4-20mA, 0-20mA, -20...20mA
- Voltage out:** 0-10VDC, ± 10 VDC **Current out:** 4-20mA, 0-20mA

Analog input module

Hardware resolution: 16-bit

AS02ADH-A	24 VDC	2 AI	—	(20 μ s) conversion time	voltage and current input	6 930.00
AS04AD-A	24 VDC	4 AI	—		voltage and current input	4 710.00
AS08AD-B	24 VDC	8 AI	—		voltage input	7 410.00
AS08AD-C	24 VDC	8 AI	—		current input	7 410.00

Analog output module

Hardware resolution: 12-bit

AS04DA-A	24 VDC	—	4 AO	35 mm	voltage and current output	6 280.00
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Analog mixed I/O module

Hardware resolution: 16-bit (input) / 12-bit (output)

AS06XA-A	24 VDC	4 AI	2 AO	35 mm	voltage and current input/output	5 360.00
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Temperature measurement modules resolution: 0.1°C (H) 88 x (W) 35 x (D) 95 mm

Pt, Ni temperature sensor

$\pm 0.1\%$ overall accuracy

- Pt100/1000, Ni100/1000, JPt100, LG-Ni1000, Cu50/100, resistor 0-300/3000 Ω

AS04RTD-A	24 VDC	4 CH	35 mm	Pt, Ni temperature sensor module	5 450.00
AS06RTD-A	24 VDC	6 CH	35 mm	Pt, Ni temperature sensor module	6 790.00

Thermocouple temperature sensor

$\pm 0.5\%$ overall accuracy

- Thermocouple - J, K, R, S, T, E, N, B; ± 100 mV

AS04TC-A	24 VDC	4 CH	35 mm	Thermocouple temperature sensor module	5 450.00
AS08TC-A	24 VDC	8 CH	35 mm	Thermocouple temperature sensor module	8 160.00

Power supply modules (clips onto left-side of CPU)

(H) 88 x (D) 92 mm

AS-PS02	100-240 VAC	24VDC	2A	70 mm	power supply	1 570.00
AS-PS02A	100-240 VAC	24VDC	1.5A	70 mm	0.5A for external I/O power supply	1 850.00
AS-ATXB*	moves the CPU power connector from left-side to the bottom				power adaptor	531.00

* Used with external power supplies for PLC racks requiring more than 2A supply



AS04AD-A



AS08TC-A



AS-PS02

PLC mid-range accessories

**AS series - Input/output (I/O) modules and accessories**

Includes digital I/O (*output/input/mix*), analog I/O (*output/input/mix*), temperature measurement, load cell, communication and function cards.

For applications including electronics manufacturing, labelling, food packaging, and textile machines.

type	supply	inputs	output	description	price
Communication and function modules				(H) 88 x (W) 56 x (D) 75 mm	
Communication extension module <i>accepts 2 x AS-F communication and/or analog function cards</i>					
• Supports standard Modbus protocols and user-defined protocols					
AS00SCM-A	24 VDC			function card module for CPU / remote I/O interface above AS00SCM-A can receive 2x optional communication / function cards (below)	3 870.00
Communication / Function cards (isolated)				(H) 37 x (W) 24 x (D) 59.3 mm	
• Plug directly into AS300 main CPU or AS00SCM-A extension module					
Communication cards					
AS-F232	RS-232			RS-232 interface for AS300 or AS00SCM-A	920.00
AS-F485	RS-485			RS-485 interface for AS300 or AS00SCM-A	1 020.00
AS-FCOPM	CANopen			Canopen DS301 interface for AS300 or AS00SCM-A	2 310.00
AS-FPFN02*	Profinet			Profinet Slave interface for AS300 or AS00SCM-A	6 460.00
AS-FEN02*	Ethernet	E/IP adaptor or Modbus TCP interface for AS300 or AS00SCM-A		MQTT Client, FTP, OPC-UA and Web Servers for AS300	3 670.00
AS-FFTP01*	Ethernet				4 880.00
AS-FECAT*	EtherCAT			Ethercat 16 Axes point-to-point positioning for AS300	7 470.00
* Occupies both function card slots					
Analog I/O function cards				plug directly into main AS300 CPU or AS00SCM-A module	
AS-F2AD	analog	2 AI	—	0-10V (12-bit), 4-20mA (11-bit)	1 850.00
AS-F2DA	analog	—	2 AO	0-10V, 4-20mA (12-bit)	2 220.00
DeviceNet communication module				(H) 88 x (W) 35 x (D) 84 mm	
• DeviceNet protocol • Master / Slave modes • RTU function					
AS01DNET-A	DeviceNet			supports master / slave modes, supports RTU function	6 490.00
EtherCAT remote I/O module				(H) 88 x (W) 56 x (D) 95 mm	
• EtherCAT Protocol • Supports PDO, SDO, Hot connect • Built-in 8 DI (2CH 200kHz) / 8 DO (2 axes 200kHz) • Supports right-side extension with AS series modules					
ASRTU-EC16AP1TA	EtherCAT	8 DI	8 DO	EtherCAT remote I/O module	NPN 7 390.00
ASRTU-EC16AP1PA	EtherCAT	8 DI	8 DO	EtherCAT remote I/O module	PNP 7 390.00
Load cell module				(H) 88 x (W) 35 x (D) 95 mm	
• Max load cell distance: 100m • Selectable signal input ranges: 0...1 / 2 / 4 / 20 / 40 / 80 mV/V • High-speed dynamic measurement: 2.5 - 400 ms conversion time • Supports 4 wire / 6 wire loadcell sensor					
AS02LC-A	24 VDC	2 CH		16bit load cell module	8 950.00
IO-Link module				(H) 88 x (W) 35 x (D) 95 mm	
• 4 IO-link ports • Supported baud rates: 4.8 / 38.4 / 230.4 kbps • Max. process data size: 32 bytes (<i>channel</i>) / 128 bytes (<i>module</i>)					
AS04SIL-A	24 VDC	4 CH		I/O link master module	6 300.00
Motion modules				(H) 88 x (W) 35 x (D) 95 mm	
Position module (pulse unit module)					
• Output: 200 kHz x2 • Input: 200 kHz x 1					
AS02PU-A	24 VDC	2 CH		differential pulse/position module	6 980.00
High-speed counter module					
• Open collector / Differential • Incremental / absolute (SSI)					
AS02HC-A	24 VDC	2 CH		200kHz, high-speed counter module	8 240.00

Above ZAR prices do not include VAT. E&OE

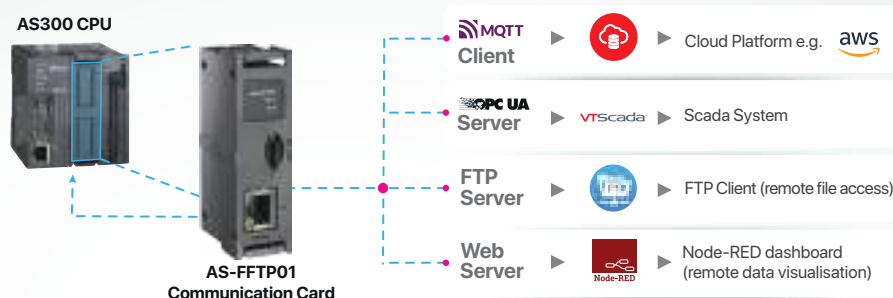
PLC mid-range cables & accessories

AS series - Cables and termination accessories					
type	from connector	description	to connector	cable length	price
I/O Cables for AS series PLCs					
PLC programming cables					
UC-PRG015-01A	mini USB	PLC to PC communication cable	USB type A	1.5 m	216.00
UC-PRG030-01A	mini USB	PLC to PC communication cable	USB type A	3 m	242.00
UC-PRG030-20A	RJ45	PLC/HMI to PC comm. cable	RJ45	3 m	548.00
Network cables					
UC-CMC003-01A	RJ45	CANopen / DeviceNet / DMCNET	RJ45	0.3 m	157.00
UC-CMC005-01A	RJ45	CANopen / DeviceNet / DMCNET	RJ45	0.5 m	157.00
UC-CMC010-01A	RJ45	CANopen / DeviceNet / DMCNET	RJ45	1 m	203.00
UC-CMC020-01A	RJ45	CANopen / DeviceNet / DMCNET	RJ45	2 m	301.00
UC-CMC030-01A	RJ45	CANopen / DeviceNet / DMCNET	RJ45	3 m	542.00
UC-EMC005-02C	RJ45	EtherCAT (<i>high noise immunity</i>)	RJ45	0.5 m	1 490.00
UC-EMC010-02C	RJ45	EtherCAT (<i>high noise immunity</i>)	RJ45	1 m	1 600.00
UC-EMC020-02C	RJ45	EtherCAT (<i>high noise immunity</i>)	RJ45	2 m	1 810.00
UC-EMC050-02C	RJ45	EtherCAT (<i>high noise immunity</i>)	RJ45	5 m	2 310.00
UC-EMC005-02B	RJ45	EtherCAT communication cable	RJ45	0.5 m	346.00
UC-EMC010-02B	RJ45	EtherCAT communication cable	RJ45	1 m	460.00
UC-EMC020-02B	RJ45	EtherCAT communication cable	RJ45	2 m	644.00
I/O extension cables for connecting I/O modules and external terminal modules					
UC-ET020-24B	ID 40pin	I/O extension cable (<i>shielded</i>)	ID 40pin	2 m	1 440.00
UC-ET030-24B	ID 40pin	I/O extension cable (<i>shielded</i>)	ID 40pin	3 m	1 680.00
UC-ET020-24D	ID 40pin	I/O extension cable (<i>shielded</i>)	2x ID20pin	2 m	2 160.00
UC-ET030-24D	ID 40pin	I/O extension cable (<i>shielded</i>)	2x ID20pin	3 m	2 520.00
External terminal modules external terminal modules for digital modules H x W					
UB-10-OR16A	ID 20pin	16 relay outputs (<i>NPN to relay</i>)	screw	87 x 113	2 300.00
UB-10-OR16B	ID 20pin	16 relay outputs (<i>PNP to relay</i>)	screw	87 x 113	2 300.00
UB-10-ID16A	ID 20pin	16 inputs/outputs (<i>NPN / PNP</i>)	screw	87 x 67	835.00
UB-10-ID32A	ID 40pin	32 inputs	screw	87 x 113	1 190.00
UB-10-OT32A	ID 40pin	32 transistor outputs (<i>NPN out</i>)	screw	87 x 113	1 190.00
UB-10-IO32D	ID 40pin	32 transistor outputs (<i>NPN out</i>)	screw	87 x 113	2 030.00

Communications modules - AS300 series

Industrial Internet of Things (IIoT) Solution:

AS-FFTP01 communication card allows for remote data access, connectivity to SCADA via OPC-UA, and connectivity to cloud via MQTT



EtherCAT P2P Positioning Solution:

AS-FECAT communication card provides up to 16 axes P2P positioning with Delta Drives and remote I/Os via Ethercat



Programmable logic controllers (high-performance)



AHCPU500-RS2



AHCPU521-EN



AHBP06M1-5A



AHPS05-5A

AH500 series - Programmable Logic Controllers (PLCs)

AH Series PLC provides automation solutions for high-level applications. Modular hardware structure, advanced functions and highly integrated software provides system solutions for advanced process control. In addition to various function blocks, excellent performance ratio and an abundant selection of extension modules providing exceptional system expansion ability, greatly reducing system cost for a broad range of applications.

- LD / SFC / FBD / IL / ST languages with ISP soft
- Enhanced flexibility: Max. 100 meters between 2 local extension racks
- Redundant system and hot-swapping function keeps systems running for improved maintainability
- CPU built-in with fully isolated RS-232/422/485, Mini-USB, Ethernet, SDHC Card slot
- Expansion modules: DIO, AIO, temperature measurement, network, pulse-train and Ethercat motion control
- Max. I/O points: DIO: Max. 4,352 points AIO: Max. 544 channels
- RIO: Max. 125,440 digital points / 3,920 analog channels
- Program capacity: Max. 1M steps (4 MB) / Data register (D+L) 512K words
- Excellent program execution speed: LD execution speed 0.02 µs

type	local I/O (points)	program capacity (steps)	data register (K words)			function blocks	extension backplane	price
			D	L	B			

RS2 series - CPU modules built-in RS-232/422/485 multi-modes communication port x 2

AHCPU500-RS2	768	48k (196 KB)	24	24	512	512	0	11 200.00
AHCPU511-RS2	1280	96k (384 KB)	48	48	1024	1024	1	12 900.00

EN series - CPU modules (with built-in EtherNet communication port 100Mbps)

			Built-in Ethernet communication port					
AHCPU511-EN	1280	96k (384 KB)	48	48	1024	1024	1	28 600.00
AHCPU521-EN	2304	192k (768 KB)	96	96	2048	2048	3	32 300.00
AHCPU531-EN	4352	384k (1.5 MB)	128	128	4096	4096	7	36 200.00

Backplanes

type	slots	description		price
AHBP04M1-5A	4	main backplane supports CPU, remote I/O modules		5 000.00
AHBP06M1-5A	6	main backplane supports CPU, remote I/O modules		6 570.00
AHBP08M1-5A	8	main backplane supports CPU, remote I/O modules		7 820.00
AHBP12M1-5A	12	main backplane supports CPU, remote I/O modules		11 000.00
AHBP06E1-5A	6	extension backplane supports CPU, remote I/O modules		7 500.00
AHBP08E1-5A	8	extension backplane supports CPU, remote I/O modules		8 750.00

Power supply modules

		Power supply for the modules on the racks			
AHPS05-5A	60W	100 - 240 VAC	50/60Hz	power supply module	5 630.00
AHPS15-5A	36W	24 VDC		power supply module	5 390.00

Digital I/O modules supports hot-swapping function

type	points		signals	terminal type	description	price
	in	out				

Input modules

Input modules	• PNP/NPN mixed mode design			• Individual LED status indicator		
AH16AM10N-5A	16	—	24 VDC 5mA	JIS removable	digital input module	4 020.00
AH16AM30N-5A	16	—	120 - 240 VAC	JIS removable	digital input module	5 940.00
AH32AM10N-5A	32	—	24 VDC 5mA	DB33	digital input module	7 830.00
AH32AM10N-5C*	32	—	24 VDC 5mA	MIL terminal	digital input module	7 540.00
AH64AM10N-5C*	64	—	24 VDC 3.2mA	MIL terminal	digital input module	12 100.00

Output modules

AH16AN01R-5A	—	16	Relay (2A)	JIS removable	digital output module	5 610.00
AH16AN01T-5A	—	16	NPN (Sink)	JIS removable	digital output module	4 450.00
AH16AN01P-5A	—	16	PNP (Source)	JIS removable	digital output module	5 170.00
AH16AN01S-5A	—	16	TRIAC	JIS removable	digital output module	6 040.00
AH32AN02T-5A	—	32	NPN (Sink)	JIS removable	digital output module	8 130.00
AH32AN02P-5C	—	32	NPN (Sink)	EU Removable	digital output module	7 540.00
AH32AN02P-5C*	—	32	PNP (Source)	MIL terminal	digital output module	8 620.00
AH64AN02T-5C*	—	64	NPN (Sink)	MIL terminal	digital output module	12 100.00
AH64AN02P-5C*	—	64	PNP (Source)	MIL terminal	digital output module	13 800.00

Mixed input/output

AH16AP11R-5A	8	8	Relay (2A)	JIS removable	digital I/O module	4 820.00
AH16AP11T-5A	8	8	NPN (Sink)	JIS removable	digital I/O module	4 240.00
AH16AP11P-5A	8	8	PNP (Source)	JIS removable	digital I/O module	4 590.00

* Highdensity MIL terminal block, see page C-18



AH16AM30N-5A



AH32AN02T-5C



AH16AP11R-5A



DIAV...

AH500 series - Extension modules

type	points		signals	terminal type	description	price
	in	out				

Analog I/O modules

supports hot-swapping function

Analog input modules

Hardware resolution: 16-bit

AH04AD-5A	4	—	0/1-5V, 0-10V, 0/4-20mA	JIS removable	analog input module	12 300.00
AH08AD-5B	8	—	0/1-5V, 0-10V, $\pm 10V$	JIS removable	analog input module	18 400.00
AH08AD-5C	8	—	0/4-20mA, $\pm 20mA$	JIS removable	analog input module	18 500.00

Analog output modules

Hardware resolution: 16-bit

AH04DA-5A	—	4	0/1-5V, 0-10V, 0/4-20mA	JIS removable	analog output module	16 500.00
AH08DA-5B	—	8	0/1-5V, 0-10V	JIS removable	analog output module	19 500.00
AH08DA-5C	—	8	0/4-20mA	JIS removable	analog output module	19 400.00

Mixed analog input/output

Hardware resolution: 16-bit

AH06XA-5A	4	2	0/1-5V, 0-10V, 0/4-20mA	JIS removable	analog I/O module	18 100.00
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Temperature measurement modules

hardware resolution: 20-bit

2/3/4-wire RTD input

AH04PT-5A	4	—	PT100/1000, Ni100/1000, 0-300 Ω	JIS removable	temperature module	18 300.00
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Thermocouple

AH04TC-5A	4	—	J,K,R,S,T,E,N	JIS removable	temperature module	13 300.00
AH08TC-5A	8	—	J,K,R,S,T,E,N	JIS removable	temperature module	17 200.00

AH500 accessories

type	signals	terminal type	description	price
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Network modules

Supports hot-swapping function

AH10EN-5A	Ethernet		ModbusTCP/Ethernet IP	19 700.00
AH10SCM-5A	RS485		Modbus / BacNet (slave)	14 800.00

Remote I/O RTU modules

module status LED indicator

- Installed on main backplane
- Supports max. speed of 1Mbps
- Supports 7 extension backplanes

AHRTU-ETHN-5A	Ethernet IP		remote I/O module	8 360.00
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Motion control modules

module status LED indicator

- UD/PD/AB/4AB modes

High-speed counters

AH02HC-5A	2-channel	EU terminal	2 high-speed counter channels	19 700.00
AH04HC-5A	4-channel	HDC terminal	4 high-speed counter channels	29 400.00

Pulse train motion control modules

module status LED indicator

AH10PM-5A		HDC terminal	6-axis pulse train motion control module	35 300.00
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Cables and accessories for AH500 PLC

type	standard length	connector type for which modules	price
AHACAB06-5A	0.6 meter	all main extension backplanes	1 940.00
AHACAB10-5A	1.0 meter	all main extension backplanes	2 160.00
AHACAB15-5A	1.5 meter	all main extension backplanes	2 450.00
AHACAB30-5A	3.0 meter	all main extension backplanes	3 450.00
AHASP01-5A		dummy module to protect empty backplane slots	464.00
AHADINADP1-5A		DIN-rail adaptor for rack installation	365.00
FMC-SD001G		SD memory card capacity 1GB	2 940.00
HASP-20-OPC01		Delta OPC server for AH500 series	9 050.00

DIView standalone SCADA system

DIView provides seamless integration with Delta PLCs, flexible variable management, a robust alarm system, easy VBScript language. Scalable I/O points and USB key-based licensing.

type	license	description	tags	price
DIAV-010640000C	64 points	DIView SCADA license for	64 tags	7 440.00
DIAV-015120000C	512 points	DIView SCADA license for	512 tags	45 800.00
DIAV-0000005UPC	upgrade	additional client licences	x 5	6 600.00
DIAV-0000010UPC	upgrade	additional client licences	x 10	14 900.00
DIAV-0300005UPA	upgrade	additional web browser licences	x 5	35 300.00
DIAV-0300010UPA	upgrade	additional web browser licences	x 10	45 800.00

Human machine interface (touch screens)

**DOP-100 series - HMI (Human Machine Interface) touch screens**

DOP-100 series HMIs are a versatile and robust touch screen interface that can be combined with over 30 other 3rd party brands and models of PLCs or controllers for effortless communication and reliable operation.

- Pressing Times: >10 000,000
- FTP/email supported: Simple data transmission and real-time status updates-support gmail
- PCB coating: Coating for enhanced durability and to protect against humidity and dust
- Power isolation: Built-in power isolation circuits provides protection against accidental external spikes
- Isolated comm. Interface: built-in serial communication port and Ethernet isolation circuits to protect against noise
- Supports VNC: For remote operation



DOP-103BQ



DOP-107WV



DOP-115MX

**DIAScreen**

type	display size	version	Ethernet	host ports SD/USB	description	price
DOP-103 (H) 103 x (W) 137 x (D) 37.1 mm						
• Resolution: 480 x 272 pixels • Panel cutout: 92.8 x 118.8 mm						
DOP-103BQ	4.3"	basic	—	USB	2x COM ports	5 370.00
DOP-103WQ	4.3"	advanced	Yes	USB	2x COM ports	6 870.00
DOP-107 (H) 161 x (W) 215 x (D) 26.2 mm (BV) / 51.2 mm (EV)						
• Resolution: 800 x 480 pixels • Panel cutout: 142.9 x 196.9 mm						
DOP-107BV	7"	basic	—	USB	2x COM ports	5 870.00
DOP-107EV	7"	standard	Yes	USB	3x COM ports	7 730.00
Squared version (H) 144 x (W) 184 x (D) 42.8 mm						
• Panel cutout: 132.4 x 172.4 mm						
DOP-107EG	7"	standard	Yes	SD/USB	3x COM ports	9 300.00
Narrow border (H) 136 x (W) 196 x (D) 32 mm						
• Panel cutout: 126.8 x 186.8 mm						
DOP-107WV	7"	advanced	Yes	SD/USB	3x COM ports	9 500.00
DOP-110 (H) 200 x (W) 272 x (D) 51.9 mm (CS) / 46mm (IS)						
• Resolution: 1024 x 600 pixels • Panel cutout: 189.3 x 261.3 mm						
DOP-110CS	10"	basic	—	—	3x COM ports	12 900.00
DOP-110IS	10"	standard	Yes	SD/USB	3x COM ports	13 600.00
Narrow border (H) 180 x (W) 270 x (D) 39 mm						
• Panel cutout: 170.5 x 255.5 mm						
DOP-110WS	10"	advanced	Yes	SD/USB	3x COM ports	16 900.00
DOP100-MX Multi-media type						
DOP100-MX series adopts a "narrow frame", wide screen design with advanced communication capabilities (<i>multilingual inputs</i>) and enhanced multi-media functions.						
• 1024 x 768 pixel 8GB ROM • 1G RAM DDR3 1000Mhz • Colour - 24bit • Dual core 1GHz processor for higher computing performance • Multi-media functions: Camera (<i>analog / IP</i>), video playback , VGA input, event trigger • Multiple Interfaces: 4 COM ports, 2 Ethernet ports, 1 Mini USB Slave 2.0 / 1 USB Host 2.0						
12-inch (H) 246.4 x (W) 317.4 x (D) 44 mm						
• Panel cutout: 228.7 x 302.7 mm						
DOP-112MX	12"	advanced	Yes	SD/USB	4 x COM ports	36 700.00
15-inch (H) 295.7 x (W) x 387.7 (D) 55 mm						
• Panel cutout: 283.7 x 372.4 mm						
DOP-115MX	15"	advanced	Yes	SD/USB	4 x COM ports	41 700.00

DIAScreen - New intergrated software platform for DOP100 HMI's - download via DIASudio

The DIAScreen application, part of the DIASudio software suite, allows configuration of Delta DOP, TP, and AX series soft-HMI controllers.

Key features include variable tag sharing with DIADesigner, a user-friendly interface with a 3D image library, improved software download speeds, support for various control elements and functions including recipes and macros, multilingual support, and enhanced security with password and permission features

Human machine interface (text panels)



TP04G-AS2



TP08G-BT2



TP04P-16TP1R



TP70P-16TP1R

TP series - Text Panel HMI

Text Panel monochrome text and graphical panel interface between people and machines. Although it is not a vivid and colourful graphical interface, it can still convert many program codes into text and graphics to display on the Text Panel.

Simple operation and control functions, the entire series supports various communication protocols. Light-weight and cost-effective allows users to quickly and easily control the system.

TP series - Operation interface panel

type	display size inch / (mm)	function keys	text lines	description	price
General features: • Lines of text displayed: 2, 4, 5, or 8 lines text depending on model • Can connect panels to windows and setup and control the panel using freely available DIAScreen software • Programmable function keys • Memory storage card slot to transfer programs between panels • STN LCD single-colour • Built-in real-time clock • 256K flash memory (1M for TP08) • RS-232/422/485 communication ports • Numerical keys with user defined functions available					
TP04G-AS2	3.0" (67 x 32)	12	4-line	operational interface panel	5 170.00
TP04G-AL2	4.1" (102 x 35)	10	4-line	operational interface panel	4 670.00
TP04G-AL-C*	4.1" (102 x 35)	10	4-line	operational interface panel	4 010.00
TP08G-BT2	3.8" (83 x 41)	24	8-line	operational interface panel	5 670.00

* With RS-232 communication port only

Text Panel with built-in PLC functionality

4.1" STN-LCD

The TP04P series is a 4-Line Text Panel HMI with built-in PLC. It adopts a built-in DIO/AIO and combines the functions of a programmable logic controller and touch panel in one device.

The screen displays text or messages with four lines at the same time. It is lightweight, flexible, provides easy-to-control operation, and supports various communication protocols.

General features:

- Built-in real-time clock
- Screen size 4.1" (102 x 35 mm)
- 2 x RS-485 communication ports
- Program capacity: 8K steps / 5K words
- Built-in USB port for program upload/download
- Integrated PLC and TP in one panel
- PLC link capable

type	digital		analog		function keys	description	price
	inputs	outputs	inputs	outputs			
TP04P-16TP1R	8	8	—	—	10	text panel/PLC	4 690.00
TP04P-22XA1R	8	8	4	2	10	text panel/PLC	5 890.00
TP04P-32TP1R	16	16	—	—	10	text panel/PLC	5 360.00

Touch panel HMI with built-in PLC

7" (65535 colour LCD touchscreen)

TP70P HMI/PLC adopts the core of DVP series PLC combined with a 7-inch HMI touch panel.

General features:

- Built-in real-time clock
- Screen resolution 800 x 480
- Built-in USB and 2 communication ports
- Provides 2 sets 10kHz high-speed pulse input
- Adopts core of DVP series PLC with a program of 8K steps and D devices of 5K words

type	digital		analog		PT100 inputs	description	price
	inputs	outputs	inputs	outputs			
TP70P-16TP1R	8	8	—	—	—	combination HMI/PLC	7 160.00
TP70P-32TP1R	16	16	—	—	—	combination HMI/PLC	8 150.00
TP70P-21EX1R*	8	8	2	1	2	combination HMI/PLC	9 560.00
TP70P-22XA1R	8	8	4	2	—	combination HMI/PLC	8 430.00

* Only mA analogs

Accessories

UC-PRG020-12A	TP series program upload/download cable (RS-232)	959.00
UC-PRG030-02A	USB type B to USB type A - programming TP-04P/70P	242.00



D-Bot

Unleashing Potential

Where Smart Technology Meets Industrial Precision



Maximum Accuracy



Cost Effectiveness



Technological Flexibility

Delta collaborative robots (cobots) are designed to enhance automation with high performance, robust construction, and advanced safety features.

- **High Performance:** Integrated 24-bit encoders and high-precision mechanics
- **Robust Design:** IP66 rating for dust and water resistance and easy cleaning
- **Safety Features:** Advanced safety architecture with collision detection
- **Accuracy:** Secure handling of delicate parts and precise assembly
- **Cost-Effective:** Customizable configurations and easy setup
- **User-Friendly Interface:** no coding experience required



**Synchronisation
Powered by CODESYS**

The **AX-8** and **CODESYS** solution make it easy and efficient for Cobots to work together seamlessly.

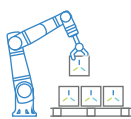
Which Application Fits You Best ?



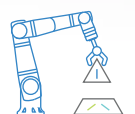
Machine Tending



Material Handling



Packaging



Assembly



Pick & Place



IP66

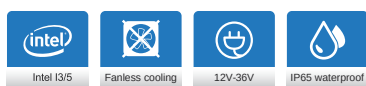


RedDot Winner



Scan to watch

Industrial panel PC



New



TPC150-W1010



TPC238-W1010

Industrial Panel PC (PPC)

Unlike regular PCs, industrial panel PCs (PPC) are built to withstand harsh conditions such as extreme temperatures, moisture, dust, and vibration. It is often used in manufacturing plants, warehouses, transportation systems, and other industrial settings where standard computers would be unsuitable.

TPC range of panel PC are designed (*all-in-one structure*) with an integrated industrial monitor and a fanless embedded PC. With capacitive touchscreens for easy interaction, allowing operators to control machinery or monitor processes without the need for external peripherals like keyboards or mice.

Advantages of Industrial Panel PC

- Durability:** Offer a combination of durability, usability, and functionality for a wide range of industrial applications, contributing to increased efficiency, productivity, and safety in industrial environments.
- Versatility:** Options for different screen sizes, processor capabilities, input / output ports, and expansion slots allow for tailored solutions for various industrial applications.
- Integration:** Panel PCs seamless integration with industrial equipment such as PLCs (*Programmable Logic Controllers*) and SCADA (*Supervisory Control and Data Acquisition*) systems. This allows for real-time monitoring and control of industrial processes, improving efficiency and productivity.
- VTScada:** Discover the perfect synergy between TPC Industrial Panel PCs and VTScada software. Designed to meet and exceed all recommended system requirements, ensuring seamless and optimal performance for VTScada operations.
See **Category G** for more information

Applications:

- Factory and warehouse digitalisation
- Logistic applications
- Inspection and monitoring of electronic equipment
- Equipment monitoring systems

type	display size	hard drive capacity	(OS) system	CPU intel	dimensions (mm) (H) (W) (D)			price
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Industrial Panel PC (PPC) series

The overall use of a flat aluminium alloy panel, a fanless, fully enclosed integrated design, meets different equipment requirements in various environments.

- 3 mm super thin front bezel (*best for embedded cabinet*)
- Pure flat panel IP65 dust-proof and waterproof
- High-precision aluminium alloy material
- Self-developed fanless X86 architecture industrial motherboard

General features:

- CPU core: I3 2-core (2.10 GHz) / I5 4-core (1.6 Ghz)
- RAM: 15" - 8BG / 19", 23" - 16GB
- Serial COM: 2 x RS232
- Operating system: Win 11 included
- Resolution (pixels): 15" - 1024 x 768 / 19" - 1440 x 900 / 23" - 1920 x 1080 TFT LCD
- Supports Mini-PCIe bus: for WiFi communication expansion and more
- Built-in ports: 4 x USB 3.0 / 2 x Intel® I211 Gigabit Ethernet Controller RJ45

Standard Panel PC (PPC)		(capacitive touch)		IP65 (front panel)				
TPC150-W1010	15"	512GB SSD	Win 11	I3 (10th GEN)	298	379	65	43 000.00
Advanced Panel PC (PPC)		(capacitive touch)		IP65 (front panel)				
TPC190-W1010	19"	1TB M.2	Win 11	I5 (10th GEN)	380	451	63	54 500.00
TPC238-W1010	23"	1TB M.2	Win 11	I5 (10th GEN)	308	475	57	58 400.00

Panel PC - Features



Wifi	Industrial terminal	GNDU	POWER	DC 12-36V	USB-2.0
SB 3.0	LAN	HD/SM	VGA	Audio Out	COM

- **Built for Harsh Environments**
Designed with industrial-grade protection, capable of performing in extreme and rugged conditions
- **IP65-Rated Dust and Water Protection**
Pure flat-panel construction with IP65 certification, providing robust resistance to dust and water
- **High-Quality Aluminium Alloy Build**
Crafted from precision aluminium alloy for superior durability and strength
- **Fanless X86 Industrial Motherboard**
Self-engineered, fanless X86 architecture ensures quiet, reliable operation in industrial settings

Communication cables for PLCs & HMIs



Communication cables for PLCs

from	8-pin mini-DIN (male)	DB9 (female)	DB9 (male)	RS-485	RS-422	RJ45	Mini USB	USB Type-B	to	DB9 (female)	DB9 (male)	USB Type-A	RS-232	RJ45	Length (met)	for PLC/HMI	DVP-SS2/SA2/SV2	DVP-ES2/EX2/EC3	DVP-SV3/SX3	DVP-SE	DVP-MC	AS200/300	AH500	TP SERIES	DOP-100	DOP-112 / DOP-115	price
Programming cables																											
UC-PRG020-12A	•	•										•			2		•	•		•		•	•				959.00
UC-PRG015-01A							•					•			1.5			•	•		•	•			•		216.00
UC-PRG030-01A							•					•			3			•	•		•	•			•		242.00
UC-PRG030-02A								•				•			3									•	•		242.00
UC-PRG030-10A		•								•					3									•	•		359.00
UC-PRG030-20A							•						•		3									•	•		548.00
IFD6500				•								•					•	•	•	•	•	•	•	•	•		1 080.00
IFD8500-A				•	•							•					•	•	•	•	•	•	•	•	•		1 170.00
Communication cables																											
UC-MS010-02A*	•									•					1		•	•			•				•		216.00
UC-MS020-06A	•									•					2		•	•			•			•	•		216.00
UC-MS030-01A	•									•					3		•	•			•			•	•		216.00
UC-MS030-03A		•								•					3									•	•		372.00
UC-MS030-04A			•							•					3									•	•		372.00
UC-MS030-06A	•									•					3		•	•			•			•	•		242.00

* 90° angled connector

Programming cables PLC to PC \ HMI to PC

type	from	to	description	length	price
For PLCs - SS, SA, SV, SX, MC, ES, EC, AS200/300, AH500 (need male -> male adaptor)					
UC-PRG020-12A	mini-DIN	USB (type-A)	program. cable PLC to PC	2 meter	959.00
For PLCs - SE, SX, AS200/300, AH500, DOP-100					
UC-PRG015-01A	mini-USB	USB (type-A)	program. cable PLC to PC	1.5 meter	216.00
UC-PRG030-01A	mini-USB	USB (type-A)	program. cable PLC to PC	3 meter	242.00
UC-PRG030-02A	USB (type-B)	USB (type-A)	program. cable HMI to PC	3 meter	242.00
UC-PRG030-20A	RJ45	RJ45	program. cable HMI to PC	3 meter	548.00
UC-PRG030-10A	DB9 (female)	DB9 (female)	RS-232 program. cable	3 meter	359.00

Communication cables (RS-232) PLC to HMI

For PLCs - SS, SA, SV, SX, MC, ES, EC, MC

UC-MS010-02A*	male mini-DIN	female DB9	cable PLC to HMI	1 meter	216.00
UC-MS030-01A	male mini-DIN	female DB9	cable PLC to HMI	3 meter	216.00
UC-MS030-03A	female DB9	male DB9	cable PLC to HMI	3 meter	372.00
UC-MS030-04A	male DB9	male DB9	cable PLC to HMI	3 meter	372.00

* 90° mini-DIN plug (male)

Exclusive to DOP103 HMI (RS-232)

UC-MS020-06A	male mini-DIN	male DB9	cable PLC to HMI	2 meter	216.00
UC-MS030-06A	male mini-DIN	male DB9	cable PLC to HMI	3 meter	242.00

Industrial network cables

UC-CMC003-01A	RJ45	RJ45	CANopen comm. cable	0.3 meter	157.00
UC-CMC005-01A	RJ45	RJ45	CANopen comm. cable	0.5 meter	157.00
UC-CMC010-01A	RJ45	RJ45	CANopen comm. cable	1 meter	203.00
UC-CMC020-01A	RJ45	RJ45	CANopen comm. cable	2 meter	301.00
UC-CMC030-01A	RJ45	RJ45	CANopen comm. cable	3 meter	542.00

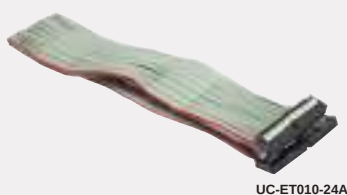
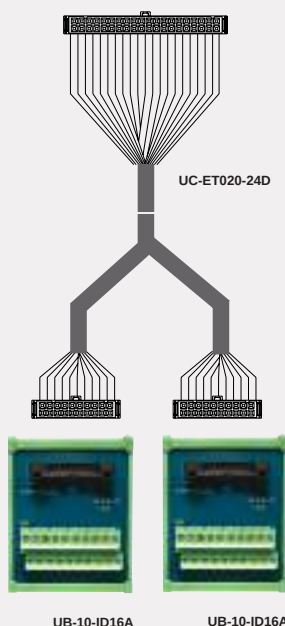
Adaptors, splitters and terminal resistors

TAP-CN03	DeviceNet CANopen distribution box, (RJ45) 1 to 4 (Terminator 121Ω)				1 600.00
TAP-TR01	CANopen (Terminator, 121 W)				66.00

Communication cables - Connector's type



Communication cables for PLCs & HMIs



I/O external screw terminal module

terminal module	Input unit	Output unit	applicable module / CPU	cable	price
UB-10-ID16A Supports I/O cards through terminal	16	or 16	AS332 CPU, AS32AM, AS32AN AS64AM, AS64AN, DVP32SN11TN AH32AN, AH64AN	UC-ET0-0-24D UC-ET010-24C	835.00
UB-10-ID32A Supports I/O cards through terminal	32	—	AS32AM, AS64AM, DVP32SM AH32AM10N-5C, AH64AM10N-5C	UC-ET0-0-24B UC-ET010-24A	1 190.00
UB-10-OR16A Supports Output Cards NPN switching	—	16 relay	AS332T-A, AS32AN02T-A, AS64AN02T-A, DVP32SN11TN, AH32AN02T-5C, AH64AN02T-5C	UC-ET0-0-24D UC-ET010-24C	2 300.00
UB-10-OR16B Supports Output Cards PNP switching	—	16 relay	AS332P-A, AH32AN02P-5C, AH64AN02P-5C	UC-ET0-0-24D UC-ET010-24C	2 300.00
UB-10-OT32A Supports I/O cards through terminal	—	32	AS32AN02T-A, AS64AN02T-A DVP32SN11TN, AH32AN02T-5C, AH32AN02P-5C, AH64AN02T-5C, AH64AN02P-5C	UC-ET0-0-24B UC-ET010-24A	1 190.00
UB-10-IO32D Supports I/O cards through terminal	16	and 16	AS332 CPU	Adaptor board	2 030.00

Note: Replace (♦) 2 (meters) or 3 (meters) to the part number

Cables for terminal modules PLC to terminal board

type	from	to	description	length	price
UC-ET010-24C	32 ID40	2 x 16 ID20	ribbon cable for terminal module	1 meter	659.00
UC-ET020-24D	32 ID40	2 x 16 ID20	shielded cable for term. module	2 meter	2 160.00
UC-ET030-24D	32 ID40	2 x 16 ID20	shielded cable for term. module	3 meter	2 520.00
UC-ET010-24A	32 ID40	32 ID40	ribbon cable for terminal module	1 meter	601.00
UC-ET020-24B	32 ID40	32 ID40	shielded cable for term. module	2 meter	1 440.00
UC-ET030-24B	32 ID40	32 ID40	shielded cable for term. module	3 meter	1 680.00
UC-ET010-13B	MDR36	MDR36	cable for UB-10-IO16C board	1 meter	2 180.00
UC-ET010-15B	MDR50	MDR50	cable for UB-10-IO24C board	2 meter	2 640.00

For motion control modules

type	inputs conn.	outputs conn.	output type	cable type	price
UB-10-IO16C	differential	MDR36	transistor	UC-ET010-13B	—
UB-10-IO24C	differential	MDR50	transistor	UC-ET010-15B	—

Accessory selection for high-density modules

Part number					
AS332T-A AS332P-A AS324MT-A		UC-ET010-24 C(1M) UC-ET010-24 D(1M) UC-ET020-24 D(2M) UC-ET030-24 D(3M)		UB-10-ID16 A	
	+		+		
			+	UB-10-ID16A (NPN/PNP) UB-10-OR16A (NPN to Relay) UB-10-OR16B (PNP to Relay)	
			+	or	

EtherCAT

CANopen

**ASD series - Servo drives (100 W - 15 kW) (high-precision, total control)**

The Standard Delta Servo System features high tolerance, stable operation, and high-precision motion control functions. Creating a highly efficient, user-friendly operating environment for equipment while optimising production efficiency and output value.

- Optimised performance - high response bandwidth
- Vibration suppression functions

- For servo cable selection chart, see **Annex-10**
- Self-Diagnosis and adaptation

series	part No last digit	PT Mode pulse train	PR Mode	RS-485	analog voltage control	Ether CAT	CAN open	full closed loop control	E-CAM	STO
B3A	-E (EtherCAT)	•	•	—	•	•	—	—	—	•
	-M (CANopen)	•	•	•	•	—	•	—	—	•
A2	-M (CANopen)	•	•	•	•	—	•	•	•	—
A3	-E (EtherCAT)	—	•	—	—	•	—	•	•	•
	-M (CANopen)	•	•	•	•	—	•	•	•	•

type	input power	supply	frequency response	motion network	price
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B3A series - Econo servo drives

CANopen - M PT/PR mode, RS-485, analog voltage control, CANopen, STO

ASD-B3A-0421-M	400 W	220V 1ph	3.1kHz	CANopen motion control	10 900.00
ASD-B3A-0721-M	700 W	220V 1ph	3.1kHz	CANopen motion control	12 200.00
ASD-B3A-1021-M	1.0 kW	220V 1ph	3.1kHz	CANopen motion control	12 300.00
ASD-B3A-1521-M	1.5 kW	220V 1ph	3.1kHz	CANopen motion control	15 600.00

EtherCAT - E PT/PR mode, analog voltage control, EtherCAT, STO

ASD-B3A-0421-E	400 W	220V 1ph	3.1kHz	EtherCAT motion control	12 600.00
ASD-B3A-0721-E	750 W	220V 1ph	3.1kHz	EtherCAT motion control	13 900.00
ASD-B3A-1021-E	1.0 kW	220V 1ph	3.1kHz	EtherCAT motion control	14 100.00
ASD-B3A-1521-E	1.5 kW	220V 1ph	3.1kHz	EtherCAT motion control	17 300.00

A2 series - Advanced servo drives

CANopen - M

- PT/PR mode, RS-485, analog voltage control, CANopen, full closed loop control, E-CAM

ASD-A2-0121-M	100 W	220V 1ph	1kHz	CANopen motion control	14 800.00
ASD-A2-0421-M	400 W	220V 1ph	1kHz	CANopen motion control	15 300.00
ASD-A2-0721-M	750 W	220V 1ph	1kHz	CANopen motion control	16 400.00
ASD-A2-1021-M	1.0 kW	220V 1ph	1kHz	CANopen motion control	16 900.00
ASD-A2-1521-M	1.5 kW	220V 1ph	1kHz	CANopen motion control	21 300.00

A3 series - Advanced servo drives

3rd generation slim-line servo drive

EtherCAT - E

- PR mode, EtherCAT, Full closed loop control, E-CAM, STO

ASD-A3-0121-E	100 W	220V 1ph	3.1kHz	EtherCAT motion control	12 400.00
ASD-A3-0421-E	400 W	220V 1ph	3.1kHz	EtherCAT motion control	12 600.00
ASD-A3-0721-E	750 W	220V 1ph	3.1kHz	EtherCAT motion control	14 200.00
ASD-A3-1021-E	1.0 kW	220V 1ph	3.1kHz	EtherCAT motion control	14 800.00
ASD-A3-1521-E	1.5 kW	220V 1ph	3.1kHz	EtherCAT motion control	17 700.00
ASD-A3-2043-E	2.0 kW	400V 3ph	3.1kHz	EtherCAT motion control	22 400.00
ASD-A3-3043-E	3.0 kW	400V 3ph	3.1kHz	EtherCAT motion control	26 600.00
ASD-A3-4543-E	4.5 kW	400V 3ph	3.1kHz	EtherCAT motion control	26 200.00
ASD-A3-5543-E	5.5 kW	400V 3ph	3.1kHz	EtherCAT motion control	33 700.00
ASD-A3-7543-E	7.5 kW	400V 3ph	3.1kHz	EtherCAT motion control	52 800.00
ASD-A3-1B43-E	11.0 kW	400V 3ph	3.1kHz	EtherCAT motion control	52 700.00
ASD-A3-1F43-E	15.0 kW	400V 3ph	3.1kHz	EtherCAT motion control	61 800.00

CANopen - M

- PT/PR mode, RS-485, analog voltage control, CANopen, full closed loop control, E-CAM, STO

ASD-A3-0121-M	100 W	220V 1ph	3.1kHz	CANopen motion control	12 300.00
ASD-A3-0421-M	400 W	220V 1ph	3.1kHz	CANopen motion control	12 300.00
ASD-A3-0721-M	750 W	220V 1ph	3.1kHz	CANopen motion control	14 000.00
ASD-A3-1021-M	1.0 kW	220V 1ph	3.1kHz	CANopen motion control	14 500.00
ASD-A3-1521-M	1.5 kW	220V 1ph	3.1kHz	CANopen motion control	17 400.00
ASD-A3-2043-M	2.0 kW	400V 3ph	3.1kHz	CANopen motion control	21 500.00
ASD-A3-3043-M	3.0 kW	400V 3ph	3.1kHz	CANopen motion control	25 700.00
ASD-A3-4543-M	4.5 kW	400V 3ph	3.1kHz	CANopen motion control	25 300.00
ASD-A3-5543-M	5.5 kW	400V 3ph	3.1kHz	CANopen motion control	32 800.00
ASD-A3-7543-M	7.5 kW	400V 3ph	3.1kHz	CANopen motion control	51 900.00
ASD-A3-1B43-M	11.0 kW	400V 3ph	3.1kHz	CANopen motion control	52 100.00
ASD-A3-1F43-M	15.0 kW	400V 3ph	3.1kHz	CANopen motion control	61 100.00



ASD-B3A-0421-E



ASD-A3-0421-E



ASD-A3-1521-M



ASD-A3-2043-M



ECM-B3M-CM0604RJ1



ECM-B3M-E21315RS1



ECMA-E11315RS

ECMA Motors (for B3A, A2, A3 servo drives)

type	output power	rated speed rpm	rated torque (Nm)	max. torque (Nm)	dimensions (mm)			price
					PCD	flange	shaft Ø	
A3/B3 servo motors - 24 bit incremental optical encoder					IP67 connector			
Motors for single-phase 220 VAC servo drives								
ECM-B3L-CM0401RJ1*	100 W	3000	0.32	1.12	46	40 x 40	8	6 760.00
ECM-B3M-CM0604RJ1*	400 W	3000	1.27	4.45	70	60 x 60	14	6 760.00
ECM-B3M-CM0807RJ1*	750 W	3000	2.40	8.40	90	80 x 80	19	7 540.00
ECM-B3M-C21010RS1	1.0 kW	3000	3.18	9.54	115	100 x 100	22	11 800.00
ECM-B3M-E21315RS1	1.5 kW	3000	4.77	14.30	145	130 x 130	22	16 100.00
Motors for single-phase 220 VAC servo drives- with built-in 24VDC brake								
ECM-B3M-CM0604SJ1*	400 W	3000	1.27	4.45	70	60 x 60	14	13 000.00
ECM-B3M-CM0807SJ1*	750 W	3000	2.40	8.40	90	80 x 80	19	13 700.00
Motors for three-phase 400 VAC servo drives								
ECM-B3M-K21320RS1	2.0 kW	2000	9.55	28.65	145	130 x 130	22	15 900.00
ECM-B3M-L21830RS1	3.0 kW	1500	19.1	57.29	200	180 x 180	35	30 000.00
ECM-B3M-L21845RS1	4.5 kW	1500	28.65	71.6	200	180 x 180	35	36 800.00
ECM-B3M-L21855RS1	5.5 kW	1500	35.01	105	200	180 x 180	42	46 900.00
ECM-B3M-LA1875RS1	7.5 kW	1500	47.75	119	200	180 x 180	42	60 200.00
ECM-B3M-LA221BR31	11 kW	1500	70.03	175	235	220 x 220	42	91 500.00
ECM-B3M-LA221FR31	15 kW	1500	95.49	238.5	235	220 x 220	55	119 000.00
* 17-bit magnetic encoder								
A2/A3/B3 servo motors - 20 bit incremental encoder								
Motors for single-phase 220 VAC servo drives								
ECMA-C10401RS	100 W	3000	0.32	0.96	46	40 x 40	8	8 060.00
ECMA-C10604RS	400 W	3000	1.27	3.82	70	60 x 60	14	10 200.00
ECMA-C10807RS	750 W	3000	2.39	7.16	90	80 x 80	19	11 100.00
ECMA-C11010RS	1.0 kW	3000	3.18	9.54	115	100 x 100	22	16 500.00
ECMA-E11315RS	1.5 kW	2000	7.16	21.48	145	130 x 130	22	20 800.00
Motors for single-phase 220 VAC servo drives- with 24 VDC brake								
ECMA-C10807SS	750 W	3000	2.39	7.16	90	80 x 80	19	21 400.00
ECMA-C11010SS	1.0 kW	3000	3.18	9.54	115	100 x 100	22	25 100.00
ECMA-E11315SS	1.5 kW	2000	7.16	21.48	145	130 x 130	22	31 000.00
Motors for three-phase 400 VAC servo drives - with 24 VDC brake								
ECMA-K11320SS	2.0 kW	2000	9.55	28.65	145	130 x 130	22	30 900.00
ECMA-L11830SS	3.0 kW	1500	19.10	57.29	200	180 x 180	35	50 000.00
ECMA-L11845SS	4.5 kW	1500	28.65	71.6	200	180 x 180	35	61 400.00

Delta A3 Servo Series:

Unmatched Precision and Performance for Modern Automation

As the market of automated manufacturing rapidly develops, the need for servo products with higher performance, speed, precision, bandwidth, and functionality is widely increasing. To meet the requirements of the motion control market for industrial manufacturing machines, Delta presents a new high-end AC servo system, the ASDA-A3 series, with features such as multi-functionality, high-performance, energy-efficiency (DC-Bus sharing), and compact design.



Cables for servo drives & motors

Cables and accessories for Servo drives and motors

type	for drive	motor		with brake	description	cable length	price
		frame size	rating				
Power cables							
ACS3-CAPW1105	A3/B3	F40-80	100-750 W	—	motor power cable	5 m	804.00
ACS3-CAPW5105	A3/B3	F40-80	100-750 W	—	IP67 motor power cable	5 m	1 380.00
ACS3-CAPWA205	A3/B3	F100-130	1-2 kW	—	motor power cable	5 m	2 950.00
ACS3-CRPWA305	A3/B3	F100-130	1-2 kW	—	cable with 90° connector	5 m	4 010.00
ACS3-CAPWC405	A3	F180	3/4.5 kW	—	motor power cable	5 m	4 160.00
ACS3-CRPWC405	A3	F180	3/4.5 kW	—	cable with 90° connector	5 m	4 130.00
ACS3-CAPWE605	A3	F180-220	5.5-15 kW	—	motor power cable	5 m	8 930.00
ASD-ABPW0005	A2	F40-80	100-750 W	—	motor power cable	5 m	1 510.00
ASD-CAPW1005	A2	F100-130	1/1.5 kW	—	motor power cable	5 m	2 160.00
Brake cables							
ACS3-CAPW2105	A3/B3	F40-80	100-750 W	yes	motor brake cable	5 m	862.00
ACS3-CAPW6105	A3/B3	F40-80	100-750 W	yes	IP67 motor brake cable	5 m	1 640.00
ASD-ABPW0105	A2	F40-80	100-750 W	yes	motor brake cable	5 m	1 560.00
ASD-CAPW1105	A2	F100-130	1-1.5 kW	yes	motor brake cable	5 m	2 600.00
ASD-CAPW1305	A2	F130	2 kW	yes	motor brake cable	5 m	3 690.00
ASD-CAPW2305	A2	F180	3-4.5 kW	yes	motor brake cable	5 m	4 500.00
Encoder cables							
ACS3-CAEN0105	A3/B3	F40-80	100-750 W		standard encoder cable	5 m	1 960.00
ACS3-CAEN1105	A3/B3	F40-80	100-750 W		encoder cable IP67 conn.	5 m	1 870.00
ACS3-CAENA105	A3/B3	F100-220	1-15 kW		standard encoder cable	5 m	2 240.00
ASD-ABEN0005	A2	F40-80	100-750 W		standard encoder cable	5 m	1 500.00
ASD-CAEN1005	A2	F100-130	1-1.5 kW		standard encoder cable	5 m	2 420.00
Power connectors - for servo drives and motors							
ASDBCAPW0000	A2/A3/B3	F40-80	100-750 W	—	std power connector		58.00
ASDBCAPW0100	A2/A3/B3	F40-80	100-750 W	yes	brake power connector		100.00
ACS3-CNPW1A00	A3/B3	F40-80	100-750 W	yes	IP67 power connector		340.00
ACS3-CAPWA000	A3/B3	F100-130	1-2 kW	—	Mil-spec power conn.		580.00
ACS3-CRPWA000	A3/B3	F100-130	1-2 kW	—	90° Mil-spec power conn.		663.00
ACS3-CAPWC000	A3/B3	F180	3-4.5 kW	—	Mil-spec power conn.		787.00
ACS3-CAPWE000	A3/B3	F180-220	7.5-15 kW	—	Mil-spec power conn.		2 290.00
ASD-CAPW1000	A2	F100-130	1-2 kW	yes	Mil-spec power conn.		1 050.00
ASD-CAPW2000	A2	F180-220	3-7.5 kW	yes	Mil-spec power conn.		1 390.00
Encoder connectors							
ACS3-CNENC200	A3/B3	F40-220	0.1-15 kW		encoder connection to drive		199.00
ACS3-CNEN2A00	A3/B3	F40-80	100-750 W		IP67 connection to motor		373.00
ACS3-CAENA000	A3/B3	F100-180	1-15 kW		Mil-spec power conn.		539.00
ACS3-CNEN2C00	A3/B3	F100-180	1-15 kW	90°	Mil-spec power conn.		721.00
ASD-ABEN0000	A2	F40-80	100-750 W		connection to motor		597.00
ASD-CAEN1000	A2	F100-130	1-1.5 kW		connection to motor		1 500.00
Servo drive accessories							
ASD-CNSC0050	50-pin solder plug			for series	ASD-A2		522.00
ASD-IF-SC5020	20-pin adaptor			for series	ASD-A2		1 160.00
ASD-BM-50A	50-pin breakout board			for series	ASD-A2		3 750.00
ACS3-CNADC150	50-pin CN1 I/O connector			for series	ASD-A3-M		531.00
ASD-CNSC0026	26-pin CN1 I/O connector			for series	ASD-A3-E		655.00
ACS3-IFSC5020	20-pin CN1 quick connector			for series	ASD-A3-M		1 060.00
ACS3-MDTB5000	50-pin CN1 break out module			for series	ASD-A3-M		4 100.00
ACS3-CAADC1	A2 to A3 CN1 conversion cable			for series	ASD-A3		2 730.00
ACS3-CAADC2	A2 to A3 CN2 conversion cable			for series	ASD-A3		2 850.00
ACS3-CAADC5	A2 to A3 CN5 conversion cable			for series	ASD-A3		241.00
ACS3-CNTB0500	26-pin CN1 I/O connector			for series	ASD-B3A		150.00
ACS3-IFSC2626	26-pin CN1 quick connector			for series	ASD-B3A		1 120.00
ACS3-MDTD2600	26-pin CN1 break out module			for series	ASD-B3A		2 630.00
ACS3-CABDC2	B2 to B3 CN2 conversion cable			for series	ASD-B3A		870.00
UC-CMC010-01A	CANopen comms cable RJ45			for series	ASD-M	1 m	203.00
UC-EMC010-02B	EtherCAT comms cable RJ45			for series	ASD-E	1 m	460.00
TAP-CN03	Canopen distribution box			for series	ASD-A2-M		1 600.00
UC-PRG030-02A	USB type A - USB type B			for series	ASD-A2-M		242.00
ASD-CARS0003	9-pin D-SUB female - Firewire			for series	ASD-A2-M		398.00
ASD-CNIE0B06	RS-485 Splitter 2x RJ45			for series	ASD-A2-M		340.00

Gearboxes for servo motors

Gearboxes for ECMA series servo motors

High-precision gearboxes are widely used in robotics, machine tools and other industrial automation. Gearboxes in precision positioning applications are used to provide higher torques and higher resolutions in a compact package and at reduced power requirements.

A geared motor will output more running and holding torque than an ungeared, standard motor with higher torque output and strengthened rigidity.

Products features:

- Low noise, helical gears allow for smooth and quiet gear meshing
- Planetary wheel with needle design increases the contact area to improve the rigidity and output torque
- Synthetic lubricating grease and sealed IP65 design requires no maintenance during the product's lifetime
- Gears are carburised and quenched to HRC62 with low carbon steel surface for optimum wear and impact toughness



type	ECMA motor	ratio	rated torque	backlash arcmin	dimensions (mm)			price
					PCD	flange	shaft Ø	
Straight gearboxes (helical gears)								
WAB-060-005-K-P1	200 - 400 W	5:1	60	≤3	70	60 x 60	16	10 900.00
WAB-060-007-K-P1	200 - 400 W	7:1	50	≤3	70	60 x 60	16	10 900.00
WAB-060-010-K-P1	200 - 400 W	10:1	40	≤3	70	60 x 60	16	10 900.00
WAB-090-003-K-P1	750 W	3:1	130	≤3	100	90 x 90	22	15 200.00
WAB-090-007-K-P1	750 W	7:1	140	≤3	100	90 x 90	22	15 200.00
WAB-090-010-K-P1	750 W	10:1	100	≤3	100	90 x 90	22	15 200.00
WAB-090-020-K-P1	750 W	20:1	140	≤3	100	90 x 90	22	19 900.00
WAB-090-040-K-P1	750 W	40:1	120	≤3	100	90 x 90	22	19 900.00
WAB-115-003-K-P1	1.5 - 2 kW	3:1	208	≤3	130	115 x 115	32	22 900.00
WAB-115-010-K-P1	1.5 - 2 kW	10:1	230	≤3	130	115 x 115	32	22 900.00
WAB-142-003-K-P1	3 - 4.5 kW	3:1	342	≤3	165	142 x 142	40	35 700.00
WAB-180-003-K-P1	5.5 kW	3:1	588	≤3	165	142 x 142	40	56 700.00

Straight and angled gearbox accessories

WAB115-DZ-95-115-M8	1 kW F100 adaptor frame for WAB-115	1 900.00
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Assembling the Planetary Gearbox with Motor



01

Confirm the compatibility of motor model and gearbox spec and clean the mounting surface



02

Remove the motor key



03

Check the motor shaft size (Insert the bushing into the input bore if necessary)



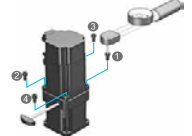
04

Remove the plug into the adapter plate. Loosen the set collar with a torque wrench and align with the bolt



05

Vertically insert motor from the gearbox



06

Tighten the mounting bolts from bolt 1 to bolt 4 with the torque wrench



07

Tighten the set collar bolt with the torque wrench



08

Assemble with the screw plug

Optical encoders



HTR-3A...



HTR-5B...



HPN-6A-2500-3-PP



HTR-HN...



HJ-6X6



SCT...

HTR series - Incremental encoders

Incremental encoders are devices that convert the angular motion or position of a shaft into an analog or digital value to determine position or motion. They are among the most commonly used rotary encoders, offering excellent speed and distance feedback. With fewer sensors involved, incremental encoders are both simple and cost-effective. However, incremental encoders are limited to providing only relative movement data, meaning a reference device is needed to determine absolute motion or position.

The range includes various optical encoders, such as solid shaft and hollow shaft models, with both light-duty and heavy-duty options. The HTR series encoders deliver precise positioning and speed-sensing capabilities, converting rotary motion or position data into electronic pulses for accurate speed and position detection. These high-quality incremental optical encoders are ideal for translating rotary or linear motion into a digital signal for monitoring or controlling speed, direction, distance, or position.

Common characteristics

- Output phase: ABZ phase (std)
- Output form: P: Push Pull **HL: Line Driver 5 - 26 VDC**
- Resolution: 5 - 5000 ppr (pulse per revolution) *model and output dependant*
- Protection: against polarity reversal

type	resolution (ppr)	supply voltage	detection system	description	dimensions body	Ø mm shaft	price
Solid shaft type							
Medium-duty incremental encoders			(IP50)	push-pull type			
HTR-3A-100A-P	100	5 - 26 VDC	incremental	rotary encoder	38	6	2 780.00
HTR-3A-360A-P	360	5 - 26 VDC	incremental	rotary encoder	38	6	2 780.00
HTR-3A-500A-P	500	5 - 26 VDC	incremental	rotary encoder	38	6	2 780.00
HTR-3A-1024A-P	1024	5 - 26 VDC	incremental	rotary encoder	38	6	3 440.00
HTR-5B-360A-P	360	5 - 26 VDC	incremental	rotary encoder	50	8	2 780.00
HTR-5B-1024A-P	1024	5 - 26 VDC	incremental	rotary encoder	50	8	3 440.00
HTR-5B-2000A-P	2000	5 - 26 VDC	incremental	rotary encoder	50	8	4 860.00
Medium-duty incremental encoders			(IP50)	line driver type			
HTR-5B-360A-H	360	5 - 26 VDC	incremental	rotary encoder	50	8	3 320.00
HTR-5B-1024A-H	1024	5 - 26 VDC	incremental	rotary encoder	50	8	4 010.00
HTR-5B-2000A-H	2000	5 - 26 VDC	incremental	rotary encoder	50	8	5 430.00
Other resolution (ppr) available on request.							
Heavy-duty incremental encoders			(IP64)	push-pull type			
• HPN square flange mount (63.5 x 63.5 mm)							
HPN-6A-2500-3-PP	2500	5 - 26 VDC	incremental	rotary encoder	63.5 □	10	8 880.00
Other resolution (ppr) available on request.							
Hollow shaft incremental encoders			IP50	push-pull type		hole	
HTR-HN-8-360A-P	360	5 - 26 VDC	incremental	rotary encoder	38	8	3 380.00
HTR-HN-8-500A-P	500	5 - 26 VDC	incremental	rotary encoder	38	8	3 380.00
HTR-HN-8-1024A-P	1024	5 - 26 VDC	incremental	rotary encoder	38	8	3 600.00
HTR-HM15-600-3-PP	600	5 - 26 VDC	incremental	rotary encoder	59	15	8 380.00
HTR-HM15-1024-3-PP	1024	5 - 26 VDC	incremental	rotary encoder	59	15	7 880.00
HTR-HD30-600-3-PP	600	8 - 26 VDC	incremental	rotary encoder	100	30	8 730.00
HTR-HD30-1024-3-PP	1024	8 - 26 VDC	incremental	rotary encoder	100	30	9 370.00
Other resolution (ppr) available on request.							
A series - Absolute encoders			IP50				
• Signal output G: Gray code							
• Output form C: NPN open-collector							
A2-G-256-C	256	10 - 26 VDC	absolute	rotary encoder	44	6	5 900.00
Other resolution (ppr) available on request.							
Encoder accessories							
type	material	rated torque (N.m)	bore (mm) hole Ø1 hole Ø2	wrench torque (N.m)	dimensions Ø mm body Ø	length	price
Flexible couplings							
HJ-6X6	plastic	1.0	6 6	0.3	16	23	395.00
SCT-16-6X6	aluminium	0.3	6 6	0.7	16	23	789.00
SCT-20-8X8	aluminium	0.5	8 8	0.7	20	26	947.00
SCT-25-8X10	aluminium	1.0	8 10	1.7	25	31	1 110.00
SCT-25-10X10	aluminium	2.0	10 10	1.7	25	31	1 110.00

Programmable logic controllers (brick-type)



LRD10RA240



LRD20R...



LRE08R...

Micro Programmable Logic Controllers (PLCs)

The Lovato's micro PLC is a compact, flexible, easy to use and highly cost-effective "intelligent relay". Base units with 10, 12 or 20 I/O points and can be expanded up to 44 digital I/O points with plug-in expansion modules.

Programming is simple and intuitive and can be done directly with the built-in keypad/display or by personal computer with **LRXSW** software and **LRXC03** programming USB cable.

Two common language logics are available for programming:

- LD (*relay ladder*) up to 300 lines of four instructions each
- FBD (*function block diagram*) up to 260 programmable blocks

Advantages:

System control and supervision

- Contact status viewing in simple and small screen display
- Possibility to add the micro PLC equipped with **LREP00** Modbus to systems integrated on data networks by using Synergy (*supervision and energy management software*)

Quick control board installation

- Fewer number of components
- Less wiring with minor number of connections

Repetitiveness

- Less errors during panel building
- Considerable time-saving

Flexibility

- Quick correction of abnormal conditions at final testing
- Fast changes on control boards

type	supply	inputs	outputs	description	price
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Base units

- Addition-Subtraction on variables
- Multiplication-Division on variables
- Comparator on variables
- HMI display for parameter viewing and programming
- PWM output
- High-speed input (1kHz)
- PID function

LRD10RA240	100 - 240 VAC	6	4	intelligent relay	4 560.00
LRD20RA240	100 - 240 VAC	12	8	intelligent relay	6 390.00
LRD12RD024	24 VDC	8*	4	intelligent relay	4 340.00
LRD20RD024	24 VDC	12*	8	intelligent relay	6 390.00
LRD20RD012	12 VDC	12*	8	intelligent relay	8 970.00
LRD20RD024P1♦	24 VDC	12*	8	intelligent relay	7 670.00

* 2/4 inputs can be analog (0-10 VDC)

♦ With built-in RS-485 modbus port

Expansion modules (plug-in)

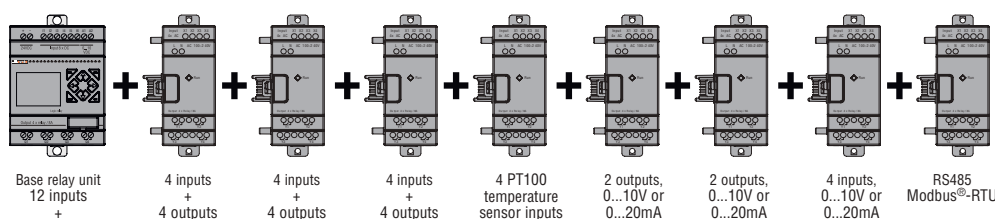
Inputs and outputs of the base relay unit can be increased with plug-in expansion modules. Up to three expansion modules can be added.

LRE08RA240	100 - 240 VAC	4	4	expansion module	2 530.00
LRE08RD024	24 VDC	4	4	expansion module	2 580.00
LREP00				modbus - RTU protocol communication unit	9 670.00

Accessories

LRXC03	cable: PC (USB) to LRD relay connecting cable (1.5 meters)	3 340.00
LRXSW	programming and supervision software (CD-ROM)	372.00
LRXM00	plug-in program backup memory module	841.00
LRXP01	HMI operator panel, 24 VDC, RS-232, RS-485	7 540.00
LRXSWP01	LRXP01 editor software (CD-ROM)	372.00
LRXC02	cable: PC (RS-232) - LRXP01 programming cable	903.00

Maximum combinations



- 24 digital inputs (4 configurable as analog 0-10V input)
- 20 digital outputs (relay, transistor or mixed)
- 4 analog inputs for PT100 temperature sensors

- 4 analog outputs configurable as 0...10V or 0/4...20mA
- 4 analog inputs configurable as 0...10V or 0/4...20mA
- 1 RS485 slave communication module.

N.B. The sequence of the products given above must be respected for correct operation.

