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The AC500 CPU's

- 2 serial interfaces integrated, RS232/RS485 configurable
- Display and 8 function keys for diagnosis and status
- Centrally expandable with up to 7 expansion modules
- Up to 4 external communication modules simultaneously and in any desired combination
- Optional: SD card for data storage and program backup

The AC500, PM571 basic units

Type	Program-memory	Cycle time ms 1000 instruct. Bit/Word/Float	Integrated coupler	Ordering Number	Weight 1 pc./kg
PM571	64 KB	0.3/0.3/6	-	1SAP 130 100 R0100	0.135
PM571-ETH	64 KB	0.3/0.3/6	Ethernet	1SAP 130 100 R0170	0.150

The AC500, PM581 basic units

Type	Program-memory	Cycle time ms 1000 instruct. Bit/Word/Float	Integrated coupler	Ordering Number	Weight 1 pc./kg
PM581	256 KB	0.15/0.15/3	-	1SAP 140 100 R0100	0.135
PM581-ETH	256 KB	0.15/0.15/3	Ethernet	1SAP 140 100 R0170	0.150
PM581-ARCNET	256 KB	0.15/0.15/3	ARCNET	available 2006	0.160

The AC500, PM591 basic units

Type	Program-memory	Cycle time ms 1000 instruct. Bit/Word/Float	Integrated coupler	Ordering Number	Weight 1 pc./kg
PM591	4096 KB	0.05/0.05/0.5	-	1SAP 150 100 R0100	0.135
PM591-ETH	4096 KB	0.05/0.05/0.5	Ethernet	1SAP 150 100 R0170	0.150
PM591-ARCNET	4096 KB	0.05/0.05/0.5	ARCNET	available 2006	0.160

Communication Module Ethernet

10/100 MBit/s Full/Half Duplex with auto-sensing
2-Port switch integrated

Transport protocols TCP/IP, UDP/IP, Modbus TCP

A maximum of 4 CM577-ETH modules can be operated simultaneously at one CPU

No external power supply required

Type	Protocol	Interfaces	Ordering Number	Weight 1 pc./kg
CM577-ETH	TCP/IP, UDP/IP, Modbus TCP	2 x RJ45	1SAP 170 700 R0001	

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Communication module Profibus DP

Profibus DP Master up to 12 MBit/s

A maximum of 4 CM572-DP modules can be operated simultaneously at one CPU

No external power supply required

Type	Interface		Ordering Number	Weight 1 pc./kg
CM572-DP	Sub-D socket		1SAP 170 200 R0001	

Communication module DeviceNet

Type	Interface	Connector	Ordering Number	Weight 1 pc./kg
CM575-DN	Plug-in terminal block	Spring-type terminals	available 2006	

Communication module CANopen

Type	Interface	Connection	Ordering Number	Weight 1 pc./kg
CM578-CN	Plug-in terminal block	Spring-type terminals	available 2006	

Terminal base

For mounting and connecting the CPUs and communication modules

1 to 4 plug-in communication modules

Connection for communication coupler integrated in the CPU

I/O interface for direct connection of up to 7 expansion modules

Field-bus-neutral FieldBusPlug-Slave interface

Connection COM1: 9-pole with pluggable terminal block

Connection COM2: 9-pole SUB-D (socket)

Type	No. of coupler slots	Connection for coupler integrated in CPU	Ordering Number	Weight 1 pc./kg
TB511-ETH	1	Ethernet RJ45	1SAP 111 100 R0170	0.215
TB521-ETH	2	Ethernet RJ45	1SAP 112 100 R0170	
TB541-ETH	4	Ethernet RJ45	1SAP 114 100 R0170	
TB521-ARCNET	2	ARCNET COAX	available 2006	

Interface modules

For decentralized I/Os

- DC505-FBP Communication via FieldBusPlug with Profibus DP, CANopen, DeviceNet, Modbus
Field-bus-dependent field bus plug required
- DC551-CS31 Communication via integrated interface with CS31 system bus
Plug-in electronic modules, terminal block TU5xx required
- DC: Channels can be individually configured as input or output

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Type	Number of DI/DO/DC	Input signal	Output signal	Ordering Number	Weight 1 pc./kg
DC505-FBP	8/-/8	24 V DC	Trans. 24 V DC, 0.5 A	1SAP 220 000 R0001	0.3
DC551-CS31	8/-/16	24 V DC	Trans. 24 V DC, 0.5 A	available 2006	0.3

Binary input/output modules

For central expansion of the AC500 CPUs

For decentralized expansion in combination with interface module DC505-FBP or DC551-CS31

Plug-in electronic modules, terminal block TU5xx required

DC: channels can be individually configured as input or output

Type	Number of DI/DO/DC	Input signal	Relay/ Transistor- outputs	Output signal	Ordering Number	Weight 1 pc./kg
DI524	32/-/-	24 V DC	-	-	1SAP 240 000 R0001	
DC532	16/-/16	24 V DC	Transistor	24 V DC, 0.5 A	1SAP 240 100 R0001	
DX522	8/8/-	24 V DC	Relay	230 V AC, 3 A ①	1SAP 245 200 R0001	
DX531	8/4/-	230 V AC	Relay	230 V AC, 3 A ①	1SAP 245 000 R0001	

Analog input/output modules

For central expansion of the AC500 CPUs

For decentralized expansion in combination with interface module DC505-FBP or DC551-CS31

Plug-in electronic modules, TU5xx required

Range individually configurable for each channel

Resolution 12 bits + sign

Type	Number of AI/AO	Input signal	Output signal	Ordering Number	Weight 1 pc./kg
AX522	8/8	0 ... 10 V, ±10 V 0/4 ... 20 mA Pt100, Pt1000 Ni1000	±10 V 0/4 ... 20 mA (max. 4 current outputs)	1SAP 250 000 R0001	

① Relay outputs, changeover contacts

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Terminal units

For binary and analog expansion modules and interface modules
Please note: for modules with relay outputs, terminal units for 230 V AC (TU531/TU532) are required!

For module-to-terminal-unit assignments, please consult the table!

	TU505 Screw	TU506 Spring	TU515 Screw	TU516 Spring	TU531 Screw	TU532 Spring	TU551 Screw	TU552 Spring
DC505-FBP	x	x						
DC551-CS31							x	x
DI524			x	x				
DC532			x	x				
DX522					x	x		
DX531					x	x		
AX522			x	x				

Type	for	Supply	Connection	Ordering Number	Weight 1 pc. /kg
TU505	FBP Interface modules		Screw terminals	1SAP 210 200 R0001	0.2
TU506	FBP Interface modules		Spring terminals	1SAP 210 000 R0001	0.2
TU515	I/O modules	24 V DC	Screw terminals	1SAP 212 200 R0001	0.2
TU516	I/O modules	24 V DC	Spring terminals	1SAP 212 000 R0001	0.2
TU531	I/O modules AC/Relay	230 V AC	Screw terminals	1SAP 217 200 R0001	0.2
TU532	I/O modules AC/Relay	230 V AC	Spring terminals	1SAP 217 000 R0001	0.2
TU551	CS31-Interface modules	24 V DC	Screw terminals	1SAP 210 600 R0001	0.2
TU552	CS31-Interface modules	24 V DC	Spring terminals	1SAP 210 400 R0001	0.2

Accessories for the AC500

Type	for	Description	Ordering Number	Weight 1 pc. /kg
TK501	CPUs AC500 COM2	Programming cable Sub-D/Sub-D length 5 m	1SAP 180 200 R0001	
TK502	CPUs AC500 COM1	Programming cable Sub-D/ terminal Block, length 5 m	1SAP 180 200 R0101	
MC502	CPUs AC500	Memory card (SD card) 128 MB	1SAP 180 100 R0001	
TA521	CPUs AC500	Lithium battery for data buffering	1SAP 180 300 R0001	
TA523	I/O Modules	Pluggable marker holder (10 pcs.)	1SAP 180 500 R0001	
TA524	Terminal base	Dummy communication module	1SAP 180 600 R0001	
TA525		Set of 10 white plastic markers	1SAP 180 700 R0001	
TA526	CPU terminal	Accessories for backplane mounting base (10 pcs.)	1SAP 180 800 R0001	

Programming package PS501 Control Builder

For all CPUs AC500

All programming languages according to IEC 61131-3

Contains: 5 programming languages, Sampling - Trace, Debugging, Offline simulation
Trace recording (multi-channel), recipe management, Continuous Function Chart

Languages: German/English/French

Scope of delivery: Software, libraries and documentation (PDF) on CD-ROM

Type	for	Description	Ordering Number	Weight 1 pc. /kg
PS501	all CPUs AC500	Programming Package PS501 Control Builder AC500	1SAP 190 100 R0001	