

AC500

Technical data

AC500 CPUs

Type	PM572	PM573-ETH	PM582	PM583-ETH	PM585-ETH
Supply voltage	24 V DC				
Current consumption on 24 V DC					
Min. (module alone)	0.050 A	0.110 A	0.050 A	0.110 A	0.150 A
Max. (all couplers and I/Os)	0.750 A	0.810 A	0.750 A	0.810 A	0.850 A
User program memory – Flash EPROM and RAM	128 kB	512 kB	512 kB	1024 kB	1024 kB
Integrated user data memory	128 kB thereof 12 kB saved	512 kB thereof 288 kB saved	416 kB thereof 288 kB saved	1024 kB thereof 288 kB saved	2560 kB thereof 1536 kB saved
User Flashdisk (Data-storage, programm access or also external with FTP)	–				
Plug-in memory card	Depending on SD-Card used : no SD-HC card allowed, use MC502 accessory				
Web server's data for user RAM disk	–	1 024 kB	–	4 096 kB	4 096 kB
Data buffering	battery				
Real-time clock (with battery back-up)	●				
Cycle time for 1 instruction (minimum)					
Binary	0.06 μs	0.06 μs	0.05 μs	0.05 μs	0.004 μs
Word	0.09 μs	0.09 μs	0.06 μs	0.06 μs	0.008 μs
Floating-point	0.7 μs	0.7 μs	0.5 μs	0.5 μs	0.008 μs
Max. number of centralized inputs/outputs					
Max. number of extension modules on I/O bus	up to max. 10 (S500 and/or S500-eCo modules allowed)				
Digital	inputs/outputs 320/320				
Analog	inputs/outputs 160/160				
Max. number of decentralized inputs/outputs	depends on the used standard Fieldbus (1)				
Program execution					
Cyclical / Time controlled / Multi tasking	●/●/●				
User program protection by password	●				
Internal interfaces					
COM1					
RS232 / RS485 configurable	●				
Connection (on terminal bases or CPU module)	pluggable spring terminal block, use TK502 cable in accessory				
Programming, Modbus RTU, ASCII, CS31 master	●				
COM2					
RS232 / RS485 configurable	●				
Connection (on terminal bases or CPU module)	D-Sub 9 female, use TK501 cable in accessory				
Programming, Modbus RTU, ASCII	●				
FieldBusPlug					
Serial neutral interface	●				
Connection (on terminal bases)	M12 male, 5 pole				
Functions	programming cable UTF-21-FBP, slave communication depending on FieldBusPlug used (PROFIBUS DP, CANopen, DeviceNet)				
Ethernet					
Ethernet connection (on terminal bases)	–	RJ45	–	RJ45	RJ45
Ethernet functions: Programming, TCP/IP, UDP/IP, Modbus TCP, integrated Web server, IEC60870-5-104 remote control protocol, MQTT, SNTP (simple Network Time Protocol), DHCP, FTP server HTTP, SMTP, PING	–	●	–	●	●
Ethernet based Fieldbus					
Ethernet connection (on CPU module)	–				
Downloadable protocols like: PROFINET IO RT Controller / EtherCAT Master	–				
CPU display	LC display and 8 function keys				
Function	RUN / STOP, status, diagnosis				
LEDs for various status display	Run, Stop, Error				
Timer/Counter	unlimited/unlimited				
Approvals	See detailed page 238 or www.abb.com/plc				

(1) e.g. CS31 Fieldbus: up to 31 stations with up to 120 DIs / 120 DOs or up to 32 AIs / 32 AOs per station.