

AC500-eCo

Technical data

AC500-eCo CPUs

Type	PM554-TP	PM554-RP	PM554-RP-AC		PM554-TP-ETH	PM556-TP-ETH
Supply voltage	24 V DC		100-240 V AC		24 V DC	
Current consumption on	24 V DC		100 V AC	240 V AC	24 V DC	
Min. (module alone)	0.06 A	0.08 A	0.02 A	0.012 A	0.07 A	0.07 A
Max. (I/Os)	0.18 A	0.22 A	0.2 A	0.11 A	0.19 A	0.19 A
Program memory	128 kB					512 kB
Integrated data memory	14 kB thereof 2 kB saved					130 kB thereof 2 kB saved
Web server's data for user RAM disk	–				512 kB	1024 kB
Data buffering (of saved data)	flash memory					
Real-time clock (option with battery back-up) (1)	•					
Program execution						
Cyclical	•					
Time controlled	•					
Multi tasking	no, 1 task + 1 interrupt task max.					
Interruption	•					
User program protection by password	•					
Cycle time for 1 instruction (minimum)						
Binary	0.08 µs					
Word	0.1 µs					
Floating	1.2 µs					
Onboard digital inputs						
Channels	8 (including 2 counter inputs, or up to 4 interrupt inputs)					
Signal voltage	24 V DC					
Onboard digital outputs						
Channels	6 (including 2 PWM outputs for types with transistor outputs)					
Relay / Transistor	Transistor	Relay	Relay	Relay	Transistor	Transistor
Rated voltage	24 V DC	240 V AC	240 V AC	240 V AC	24 V DC	24 V DC
Nominal current per channel	0.5 A	2 A resistive	2 A resistive	2 A resistive	0.5 A	0.5 A
Onboard analog outputs						
Channels	–					
signal ranges	–					
Onboard analog inputs						
Channels	–					
signal ranges	–					
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	320 + 8				
	outputs	320 + 6				
Analog	inputs	160				
	outputs	160				
Max. number of decentralized inputs/outputs						
On CS31 bus	up to 31 stations with up to 120 DI / 120 DO each or up to 32 AI/32 AO per station					
Internal interfaces						
COM1						
RS485	•					
Sub-D connection	•					
Programming, Modbus-RTU, ASCII, CS31	•					
COM2 (option) (2)						
RS485 / RS485 isolated	•/•					
Terminal block	•					
Programming, Modbus-RTU, ASCII	•					
Ethernet						
RJ45	–					•
Ethernet functions: Programming, Modbus TCP/IP, UDP/IP, integrated Web server, DHCP, FTP server, SNTP client	–					•
SMTP	–					•
RUN/STOP switch	•					
LED for power, status and error	•					
Approvals	see detailed overview page 238 or www.abb.com/plc					

(1) Real-time clock requires optional TA561-RTC or TA562-RS-RTC.

(2) COM2 requires TA562-RS-RTC, TA562-RS or new TA569-RS-ISO.