

Technical Data

General specifications	
Power supply	24 V DC (19.2–30 V DC) incl. 5% ripple according to IEC 61131-2 standard i.e. +20%, –15% and max. 5% ripple.
Temperature	
Operating	+5°C to +55°C
Non-operating	–25°C to +70°C
Humidity	Max 90%, non-condensing
Protection rating	IP20
Approvals (when product or packaging is marked)	CE marked and meets EMC directive 89/336/EEC according to the following standards: EN 50081-2 and EN 50082-2. Low Voltage Directive 73/23/EEC with supplement 93/68/EEC according to the following standard: IEC 61131-2 (only applicable for units connected to 50–1000 V AC and/or 75–1500 V DC). UL listed for US and Canada according to UL 508, with the exception for 200-CIPB/DP.
Package volume for the central system units	
1–2 units	H279 x W360 x D90 mm (9 dm ³)
3–8 units	H265 x W265 x D175 mm (12 dm ³)

Controller units	
Processor type	
PM253	Motorola MC68020
PM254	Motorola MC68020
PM255	Motorola MC68060
Clock frequency	
PM253	16.7 MHz
PM254	28.8 MHz
PM255	50 MHz
Floating point co-processor	Yes
Memory and I/O unit support for system and application program	
PM253V01	1 Mbyte RAM, 32 I/O units
PM253V02	2 Mbyte RAM, 64 I/O units
PM254V04	4 Mbyte RAM, 128 I/O units
PM254V08	8 Mbyte RAM, 256 I/O units
PM255V04	4 Mbyte RAM, 256 I/O units
PM255V08	8 Mbyte RAM, 512 I/O units

Status indicators	
PM253 and PM254	Green LEDs for Power, SattBus signals (SB TD0, SB RD0), serial channel signals (TD0, TD1, RD0 and RD1). Red LEDs for Fail and Stop
PM255	Green LEDs for Power, serial channel signals TD0 and RD0. Red LEDs for Fail and Stop. Red/green LED for battery status
Communication channels	
Serial channels	Max. cable length: 15 meters.
Baudrate	75, 110, 134, 150, 300, 600, 1200, 2400, 4800, 9600 (default), 19200 and 38400 baud.
PM253 and PM254	2 RS232 channels. Channel 0 for TD, RD, RTS, CTS, DCD and DTR. Available protocols for channel 0 is MMS (SattLink). Channel 1 for RD and TD. Data bits 7 or 8 (default). Parity odd, even or none. Stop bits 1 (default) or 2. Available protocols for channel 1, see 200-CI232
PM255	1 RS232 channel. Channel 0 for TD, RD, RTS and CTS. Available protocol for channel 0 is MMS (SattLink).
SattBus	1 channel, supervisor (not available on PM255). Available protocol, see 200-CISB
Real-time clock	
Accuracy, normal mode	
PM253 and PM254	10 ppm (approx. 6 min/year)
PM255	100 ppm (approx. 60 min/year)
Accuracy, battery backup mode	50 ppm (approx. 0.2 s/hour)
Backup battery	
	Batteries are to be replaced every 3rd year. Note that for all PM254 units, the battery lifetime is max. 3000 h when the system is not powered.
PM253 and PM254	A lithium battery for the memory and real time clock (3.6 V, 1.75 Ah, size AA/R6/UM-3) incl. connection cable.
PM255	A NiMH rechargeable battery for the memory and real time clock (4.8 V, 200 mAh, size 4 x V250H). Backup time is about 1 hour.
Connectors	
	One 200-BPP screw terminal block. One 9-pin female D-type connector at the front.
Earthing	
	Directly connected via the 200-BPN backplane.
Power supply	
	From 200-PSMG/PSSG Power supply unit.
Internal current consumption (from 200-PSMG/PSSG)	
	Max. 0.6 A
Backplane key code	
	5.
Weight	
	0.43 kg excl. packaging 0.50 kg incl. packaging
Dimensions	
	H 163 x W 45 x D 91 mm (excl. connectors and snap locks)
Order codes	
	PM253V01 PM253V02 PM254V04 PM254V08 PM255V04 PM255V08