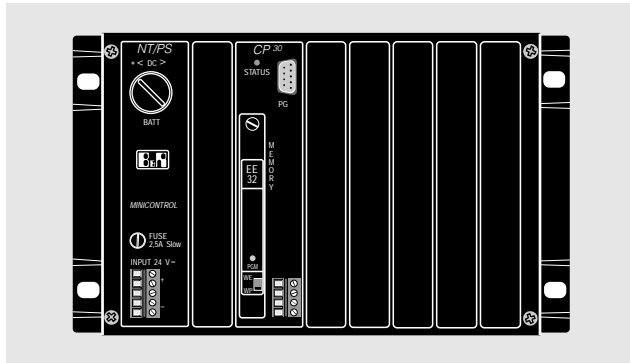## GENERAL INFORMATION

The components required for operating the MINICONTROL system are combined in what is called the base unit. This base unit consists of:

- The CPU
- The housing
- The power supply module
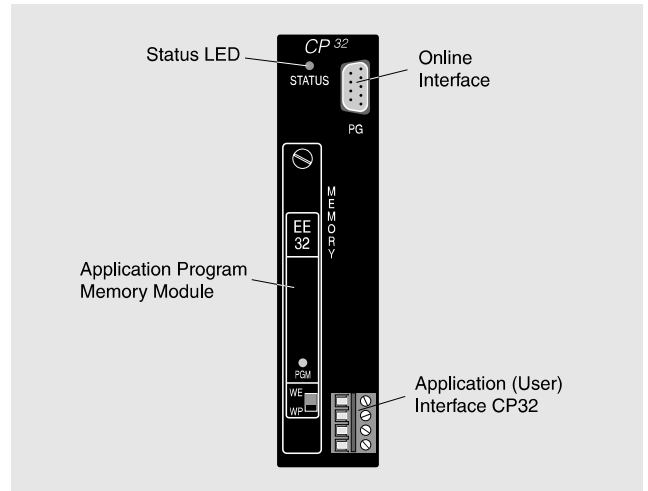- The application program memory module

Three base units with two different CPUs exist for the MINICONTROL system:

Base Unit	Model Number	CPU
A	MCGE31-0	CP30
C	MCGE232-022	CP32
C	MCGE232-022M	CP32

ORDER DATA

MCGE31-0 — MINICONTROL Base Unit A, consisting of housing, CPU CP30, power supply module NT33 and application program memory module (16 KByte RAM, 16 KByte EEPROM for 4.7 K instructions), 6 slots for digital I/O modules and timer module

MCGE232-022 — MINICONTROL Base Unit C, consisting of housing, CPU CP32, serial RS485/TTY application interface, real-time clock, 32 KByte EEPROM additional memory (data), power supply module NT33 and application program memory module (16 KByte RAM, 16 KByte EEPROM for 4.7 K instructions), 6 slots for digital I/O modules and timer module - 2 of which are suitable for operating analog I/O modules, interface modules and counter modules

MCGE232-022M — MINICONTROL Base Unit C, consisting of housing, CPU CP32, serial RS485/TTY application interface, real-time clock, 32 KByte EEPROM additional memory (data), power supply module NT33 and combination of network capable on-line interface modules with modem interface and application program memory module[1] (16 KByte RAM, 16 KByte EEPROM for 4.7 K instructions), 6 slots for digital I/O modules and timer modules - 2 of which are suitable for operating analog I/O modules, interface modules and counter modules

CPUS

The most important technical data and points of interest for the two MINICONTROL CPUs are:

Technical Data	CP30	CP32
Application Program Memory	16 KByte 4.7 K Inst.	16 KByte 4.7 K Inst.
EEPROM Expansion Memory (Data)	-	32 KByte
Processing Time	4 msec/K Inst.	4 msec/K Inst.
8 Bit Data Memory Total Remnant	7168 7148	7168 7148
1 Bit-Data Memory Total Remnant	800 300	800 300
Microprocessor	MOTOROLA 6303	MOTOROLA 6303
Application Interface	-	TTY/RS485 (Switchable)
Time/Date	Software Clock	Real-Time Clock
Software Timers	64	64
Digital I/O Modules	6	6
Analog I/O Modules	-	2
Interface Modules	-	2
Counter/Positioning Modules	-	2

On-line Interface

The CPU uses an on-line interface (9 pin D-type Male) for communication with the programming device (=on-line operation). The on-line interface is a TTY interface with 62.5 kBaud which can only be used for on-line operation with the programming device. The on-line interface is labelled PG on the front of the module. An on-line cable is required for on-line operation:

On-line Cable	For On-line Interface	Programming PC	Bus Type/Port
BRKAOL-0	BRIFPC-0	IBM AT compatible PCs	ISA (PC/AT)
	BRKAOL5-1	Notebooks	CENTRONICS

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[1] The combination of network capable on-line interface module with modem interface and application program memory module is described in section A7 "PLC Programming / On-line Networks and Diagnosis Over Modem".