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**Technical Paper on Hitachi H200**

The Hitachi H200 CPU is available in two forms: CPU-02H and CPE-02H. The main difference between the two is in the way the memory is handled. The CPE-02H has internal RAM memory. Whereas the CPU-02H utilizes a EPROM or (E)EPROM.

The advantage to using the CPE-02H is, that it does not required a battery (LIBAT-H). The advantage to using the CPU-02H is that it does not required additional memory. However, it does require the (LIBAT-H) battery. This unit does have one additional feature, a real-time clock, which the CPE-02H does not have. For additional information, please reference the chart below.

Combination of maintenance free CPU and EEPROM liberates system from maintenance of Lithium battery. \*  
 Table 1-5-2 Comparison of CPU and additional memories

Item		Case 1	Case 2	Case 3	Case 4	Case 5
CPU		CPU-02H	CPE-02H	CPE-02H	CPU-02H	CPU-02H
Additional memory		—	MPH-4E	MPH-8R	MPH-4E	MPH-8R
Lithium battery		Necessary *1)	Not necessary *2)	Not necessary *2)	Necessary *1)	Necessary *1)
Battery error display		built-in	no	no	built-in	built-in
Program Change	STOP mode	possible	possible	impossible	possible	impossible
	RUN mode	possible	*3) impossible	*3) impossible	impossible	impossible
Real time clock		possible	impossible	impossible	possible	possible
Memory protection at power failer		possible	impossible	impossible	possible	possible

- \* 1) When Lithium battery is put off from CPU-02H, then battery error display flickers.
- \* 2) Maintenance free CPU CPE-02 is shipped with Lithium battery because of making it possible to program and test run before Writing program in ROM. When power supply is turned off without Lithium battery before writing program in ROM, program in RAM disappears.
- \* 3) RAM is also built-in CPE-02H. In case of running without additional memory, it is possible to change program in RUN mode.