



## **Allen-Bradley PLC-2/20 and PLC-2/30**

### **CMOS RAM Memory Modules**

#### **Installation Data**

#### **To the Installer**

CMOS RAM memory modules for the PLC-2/20 and the PLC-2/30 programmable controllers are available in two forms:

- cat. no. 1772-ME and 1772-MEB — to which memory segments (1772-MR, -MT, -MS, and MS8) can be added to create a module with a specific capacity
- cat. no. 1772-ME8, and 1772-ME16 — self-contained 8Kword and 16Kword memory modules

These memory modules have parity error detection which provides an on-line capability of automatically detecting single bit errors as well as detecting many multiple bit errors.

Memory modules provide storage for the user program, data table, I/O image table, and message area.

Each memory module requires one slot in the Processor Chassis (cat. no. 1772-LA)

#### **Module Compatibility**

CMOS RAM memory modules can be used in certain PLC-2 processors. Table A specifies the memory module(s) for each PLC-2 family processor.



**CAUTION:** Do not use a 1772-MEB or 1772-ME16 CMOS RAM memory module with a 1772-LG processor control module prior to revision F(6). When performing write block transfers, do not use a 1772-MEB or 1772-ME16 memory module with a 1772-LG processor control module prior to revision H(8). If this CAUTION is not observed, memory invalidation may occur.

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**Table A**  
**PLC-2/20 and PLC-2/30 Memory Modules**

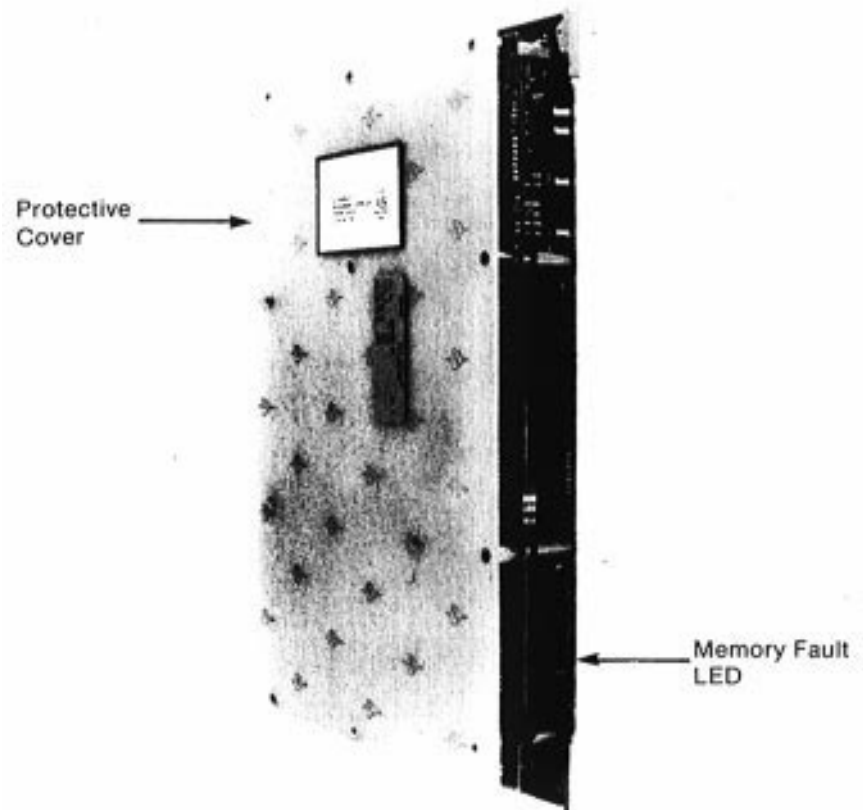
Module Type	Compatible Processors		Memory Size	Maximum Data Table Size
	2/20	2/30		
1772-ME CMOS RAM	1772-LP1, -LP2, -LP2D4 <sup>1</sup>	1772-LP3, -LP3D4 <sup>1</sup>	8 Kwords (8192 words)	8064 words
1772-MEB CMOS RAM	1772-LP1, -LP2, -LP2D4 (8 Kword limit)	1772-LP3, -LP3D4	16 Kwords (16256 words)	8192words
1772-ME8 CMOS RAM	1772-LP1 -LP2, -LP2D4	1772-LP3, -LP3D4	8 Kwords (8192words)	8064 words
1772-ME16 CMOS RAM		1772-LP3, -LP3D4	16 Kwords (16256 words)	8192 words

<sup>1</sup> This processor contains a 24V dc system power supply.

## CMOS RAM

The CMOS RAM memory modules (figure 1) and CMOS RAM segments form a solid-state electronic memory which features low power consumption. Data is stored electrically in the form of voltage levels. These levels are stored as either 1 or 0. The 1 and 0 represent binary digits, which are the smallest parts of a memory word.

**Figure 1**  
**CMOS RAM Memory Module (cat. no. 1772-ME or 1772-MEB) Equipped with a 2K Memory Segment (cat. no. 1772-MS)**



**Figure 2**  
**CMOS RAM Memory Module (cat. no. 1772-ME8 or 1772-ME16)**



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