



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.

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 ¹ | 1772-LP3, -LP3D4 ¹ | 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 |

¹ 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)

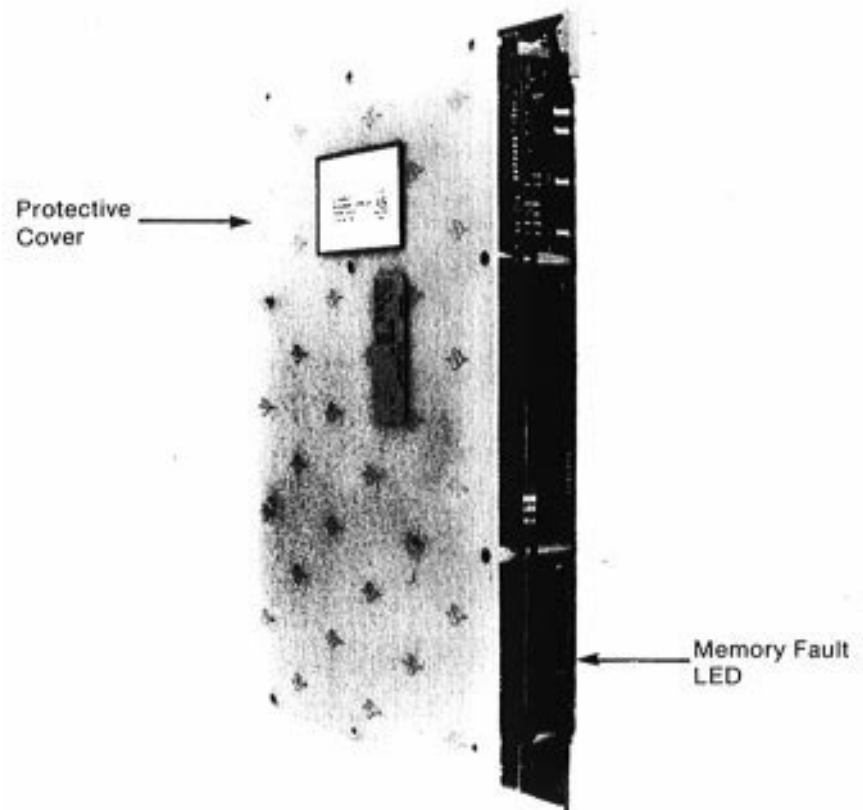


Figure 2
CMOS RAM Memory Module (cat. no. 1772-ME8 or 1772-ME16)



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AB Parts