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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)

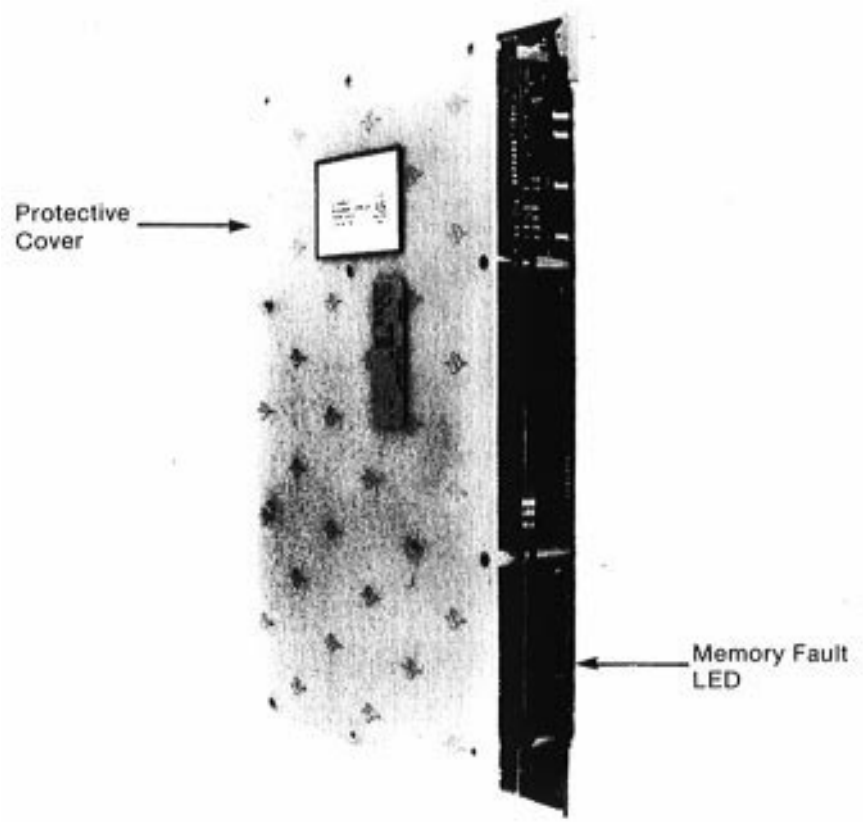

Figure 2
CMOS RAM Memory Module (cat. no. 1772-ME8 or 1772-ME16)

Installation Data
PLC-2/20, PLC-2/30 Memory Modules

Rockwell *Automation*

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Allen-Bradley, a Rockwell Automation Business, has been helping its customers improve productivity and quality for more than 90 years. We design, manufacture and support a broad range of automation products worldwide. They include logic processors, power and motion control devices, operator interfaces, sensors and a variety of software. Rockwell is one of the worlds leading technology companies.

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Publication 1772–2.13 – July 1990
Supersedes Publication 1772–2.13 – August 1985

PN 955108–71
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