



## **PLC-5/15 and PLC-5/25 CMOS RAM Memory Modules Cat. No. 1785-MR and 1785-MS**

### **Installation Data**

#### **To the Installer**

This document provides information on:

- important pre-installation information
- initial handling procedures
- installing the memory module
- removing the memory module
- module specifications

#### **Pre-installation Information**

The CMOS RAM memory modules expand the memory size of the PLC-5/15 and PLC-5/25 programmable controllers. The 1785-MR adds 4K words and the 1785-MS adds 8K words to the existing memory in your programmable controller. Once the memory module is installed in your PLC-5/15 or PLC-5/25 module, the memory is treated the same as system memory; it requires no further identification for addressing. Backup is provided by the battery installed in your PLC-5/15 or PLC-5/25 programmable controller module.

#### **Initial Handling**

Each memory module is shipped in a static-shielded bag to guard against electrostatic discharge damage. Observe the following precautions when handling and installing the memory module.

## Electrostatic Discharge Damage

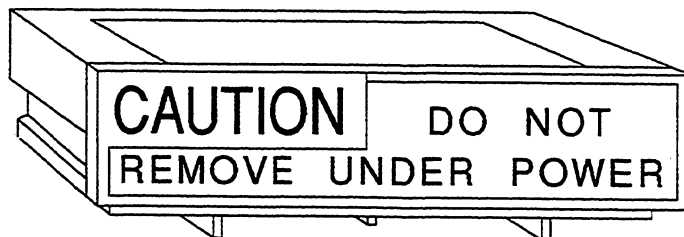


**WARNING:** Under some conditions, electrostatic discharge can degrade performance or damage the module. Observe the following precautions to guard against electrostatic damage.

- Wear an approved wrist strap grounding device, or touch a grounded object to discharge yourself before handling the module.
- Do not touch the backplane connector or connector pins on the PLC-5/15 or PLC-5/25 controller module.
- When not in use, keep the memory module in a static-shielded bag.

## Installing the Memory Module

The memory module has 3 plastic tracks on the bottom of the module. These tracks correspond to grooves in the memory-module slot on the PLC-5/15 or PLC-5/25 processor module.

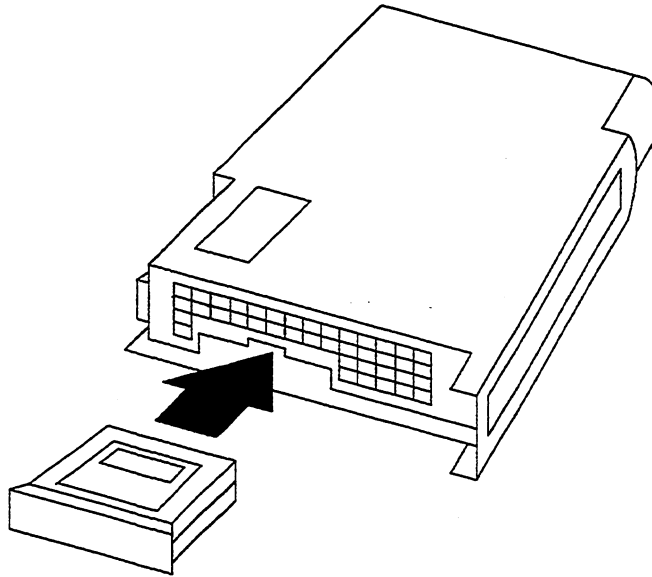


17828



**CAUTION:** Handle this module only in a static-safe work environment. If handled improperly, electrostatic discharge can damage it.

1. Backup your processor memory on tape or disk before proceeding.
2. Turn the system power OFF.
3. Remove the processor module from the I/O chassis.
4. Place the processor module on a clean flat surface with the bottom of the processor module facing you.



12077

5. Position the memory module with its label facing forward, in the memory module slot. Align the slots with the grooves.
6. Insert the module into the processor module by pressing firmly until seated.
7. Replace the processor module in the 1771 I/O chassis.
8. Turn system power ON.
9. Clear memory, and reload your processor memory.

### Removing a Memory Module

To remove a memory module, repeat steps 1 through 4 under "Installing a Memory Module" above.

1. Position a coin into the memory module slot so that it engages the lip on the memory module.
2. Carefully rotate the coin upward to remove the memory module from its slot.
3. When able, grasp the module and remove it from the slot.



**CAUTION:** Memory in CMOS RAM is volatile memory. When you replace the battery in the PLC-5/15 or PLC-5/25 processor module during regular maintenance, make sure the processor is powered; otherwise, you will lose memory.

**Important:** Processor memory is invalid when you initially insert a CMOS RAM memory module. Make sure you clear memory after inserting the memory module for the first time.

## Specifications

Memory Type	CMOS RAM
Memory Size	
_____ 1785-MR	4K words
_____ 1785-MS	8K words
Environmental Conditions	
_____ Operational Temperature	0° to 60°C (32° to 140°F)
_____ Storage Temperature	-40° to 85°C (-40° to 185°F)
_____ Relative Humidity	5 to 95% (without condensation)

PLC is a registered trademark of Allen-Bradley Company, Inc.



**ALLEN-BRADLEY**  
A ROCKWELL INTERNATIONAL COMPANY

Allen-Bradley has been helping its customers improve productivity and quality for 90 years. A-B designs, manufactures and supports a broad range of control and automation products worldwide. They include logic processors, power and motion control devices, man-machine interfaces and sensors. Allen-Bradley is a subsidiary of Rockwell International, one of the world's leading technology companies.



### With major offices worldwide.

Algeria • Argentina • Australia • Austria • Bahrain • Belgium • Brazil • Bulgaria • Canada • Chile • China, PRC • Colombia • Costa Rica • Croatia • Cyprus • Czech Republic • Denmark • Ecuador • Egypt • El Salvador • Finland • France • Germany • Greece • Guatemala • Honduras • Hong Kong • Hungary • Iceland • India • Indonesia • Israel • Italy • Jamaica • Japan • Jordan • Korea • Kuwait • Lebanon • Malaysia • Mexico • New Zealand • Norway • Oman • Pakistan • Peru • Philippines • Poland • Portugal • Puerto Rico • Qatar • Romania • Russia-CIS • Saudi Arabia • Singapore • Slovakia • Slovenia • South Africa, Republic • Spain • Switzerland • Taiwan • Thailand • The Netherlands • Turkey • United Arab Emirates • United Kingdom • United States • Uruguay • Venezuela • Yugoslavia

World Headquarters, Allen-Bradley, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414 382-2000 Fax: (1) 414 382-4444