



## SECTION 1. INTRODUCTION

### PC-700/900 Programmable Controllers

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#### 1-1. GENERAL DESCRIPTION

**Numa-Logic** PC-700 and PC-900 Programmable Controllers are small, microprocessor-based programmable controllers that are designed for a wide range of industrial control applications. **Numa-Logic** combines the rugged construction, simple programming, and powerful control capabilities of the PC-700/900 with a comprehensive support program to maximize the performance of the system.

Westinghouse is dedicated to meeting industry's control requirements with its **Numa-Logic** Programmable Controller products. Contact your Westinghouse Sales Representative for information about the latest developments in our **Numa-Logic** products. Westinghouse invites you to comment on **Numa-Logic** Programmable Controllers and their application; use the post-paid card provided at the back of this manual.

#### 1-2. SCOPE

This manual consists of nine sections and one appendix:

- Section 1 — Introduction
- Section 2 — System Overview
- Section 3 — Programming
- Section 4 — Programmable Functions
- Section 5 — Loop Controller

- Section 6 — Programming Considerations
- Section 7 — Installation and Start-Up
- Section 8 — System Testing
- Section 9 — Troubleshooting
- Appendix A — Glossary

These sections are written for easy reference without extensive background study. A variety of illustrations and examples is also provided.

#### 1-3. REFERENCE MANUALS

The information in this manual applies only to PC-700/900 Programmable Controllers. For additional information, refer to the following documents:

- "CRT Programming Manual" (NLAM-B56)
- "Mini Loader Programming Manual" (NLAM-B60)
- "PC Communications Manual" (NLAM-B58)

#### 1-4. BIBLIOGRAPHY

The following documents were referenced for Section 5:

- Shinskey, F. G. *Process Control Systems*. New York: McGraw-Hill, 1979.
- Maloney, Timothy J. *Industrial Solid-State Electronics — Devices and Systems*. Englewood Cliffs, NJ: Prentice Hall, 1979.



## **1-5. UNPACKING PROCEDURES**

**Numa-Logic** Programmable Controllers and associated hardware are extensively tested and carefully packed prior to shipment. This equipment, when delivered, should be inspected for visible damage, and inventoried to verify that both the quantities and types of components ordered have been delivered. Equipment should also be tested to ensure that it is operational. See Section 7, "Installation and Start-Up" for detailed instructions on handling of this equipment upon delivery.

## **NOTICE**

**ANY CLAIM FOR DAMAGES SHOULD BE FILED WITH THE CARRIER OR HIS AGENT. ALSO, NOTIFY THE FACTORY SO THAT CORRECTIVE ACTION CAN BE TAKEN AT THE EARLIEST POSSIBLE TIME.**