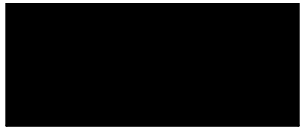


# EU Information



*This product is manufactured in compliance with European Union (EU) Directives and carries the CE mark. The following information is provided to comply with EU documentation requirements.*



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**NOTE: Products with CE marks** perform their required functions safely and adhere to relevant standards as specified by EC directives provided they are used according to their intended purpose and that the instructions in this manual are adhered to. The protection provided by the equipment may be impaired if this equipment is used in a manner not specified in this manual. Only replacement parts supplied by **PLC Direct** or its agents should be used. A listing of international affiliates is available at our Web site <http://www.plcdirect.com>

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**Technical Support** If you need technical assistance, please call the technical support group at **PLC Direct** (3505 Hutchinson Rd., Cumming, GA 30040, U.S.A.) at 800-633-0405. They are available Monday through Friday from 9:00 A.M. to 6:00 P.M. Eastern Standard Time. Their Web Site address is <http://www.plcdirect.com>

**SELV Circuits** All electrical circuits connected to the communications port receptacle are rated as Safety Extra Low Voltage (SELV).

## Environmental Specifications

Operating Temperature ..... 0° to 50° C  
Storage Temperature ..... -20° to 70° C  
Operating Humidity ..... 95% (non-condensing)  
Air Composition ..... No corrosive gases permitted

## Preventative Maintenance and Cleaning

No preventative maintenance is required. To clean the exterior of the panel disconnect the input power and carefully wipe the panel with a cloth moistened with plain water.

## External Fuse Protection for Input Power

There are no internal fuses for the input power circuits, so external circuit protection is needed to ensure the safety of service personnel and the safe operation of the equipment itself. To comply with EU specifications, the input power must be fused. Use a fuse rated at **twice** the input current rating of the panel. For example, if the panel has an input current rating of 0.5 amperes, use a fuse rated for 1 ampere.

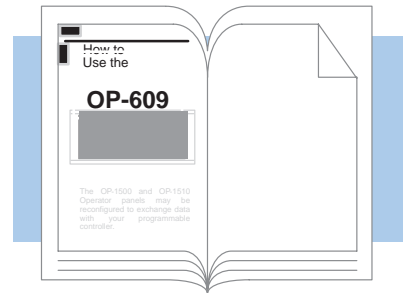
# Introduction

## The Purpose of this Manual

This User Manual provides user information on panel installation, panel configuration, and programming the OP-609. The purpose of this manual is to teach programming techniques which may be applied while implementing the OptiMate® panels. After reading the manual completely, load and run the example programs which are on the supplied diskette using the directions in Appendix A.

## Contents of the Manual

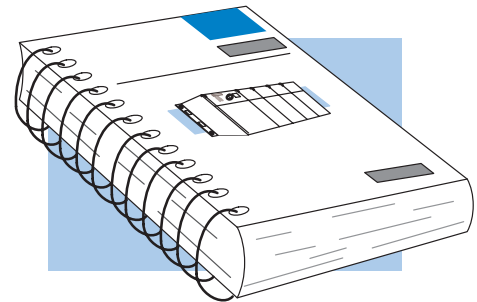
Inside this manual you will learn about planning, implementing, and utilizing the OptiMate OP-609 panel. Also included are application examples to improve the learning process and working knowledge of the OptiMate units.



## Supplemental Manuals

Reference the appropriate PLC/CPU User Manuals for the commands and address references required for your system. If you are using a **Direct**LOGIC PLC product, you will want to keep the **Direct**SOFT User Manual handy while programming your system. For *other* PLC brands you must reference their User manuals to properly program the ladder logic required to operate the OP-panels.

For Multi-Panel applications utilizing the OP-9001 Communications Master please refer to the OP-9001 User Manual (Part Number OP-9001-M).



## Technical Assistance

After completely reading this manual, including Appendix B, Troubleshooting the OP-609, if you are not successful with implementing the OP-609, you may call PLC**Direct** at (800) 633-0405, Monday through Friday from 9:00 A.M. to 6:00 P.M. Eastern Standard Time. Our technical support group will work with you in answering your application questions. If you have a comment or question about our products, services, or manuals which we provide, please fill out and return the suggestions card included with this manual.