



# Electrician's Guide to Control and Monitoring Systems: Installation, Troubleshooting, and Maintenance (P/L Custom Scoring Survey)

By Albert F. Cutter Sr.

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**Electrician's Guide to Control and Monitoring Systems: Installation, Troubleshooting, and Maintenance (P/L Custom Scoring Survey)** By Albert F. Cutter Sr.

## Complete Coverage of Control and Monitoring Systems

Written by a veteran electrician with more than 40 years' experience, this practical guide walks you through the ladder diagrams and control devices of networked monitoring systems. *Electrician's Guide to Control and Monitoring Systems* focuses on installation, troubleshooting, and maintenance and includes coverage of the 2008 National Electrical Code.

*Electrician's Guide to Control and Monitoring Systems* contains:

- Detailed drawings
- Step-by-step explanations of drawings
- Information on networks used in the field
- Drawings available online

Ladder diagrams are broken down and rebuilt, making it easy to understand the symbols and language used in them. Hundreds of product photos and line drawings illustrate key details presented in the book, and additional drawings are available online. Essential for electrical contractors, electricians, and maintenance workers, this on-the-job resource also contains information on networks used in the field.

Foreword by Michael I. Callanan, Executive Director, National Joint Apprenticeship Training Committee (NJATC).

Drawings available at [www.mhprofessional.com/egcms](http://www.mhprofessional.com/egcms)

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## **Editorial Review**

From the Author

This book contains practical information needed by the electrical contractor, electrician, or maintenance worker to understand and work with the technology used in systems found today. The book focuses on control and monitoring systems. The information provided here will assist in the installation, troubleshooting, and maintenance of these systems.

This information is presented with as little jargon as possible and with as many examples as are practical. There are hundreds of product photographs and information sheets and line drawings. Ladder diagrams are broken down and rebuilt to allow the reader to have a better understanding of the symbols and language used in them.

Network systems are explained in plain language. The only theory used is what is absolutely necessary to understand the subject. Sample devices and circuits are used to help the reader understand control and monitoring systems. All the relevant 2008 National Electrical Code® articles are explained.

Albert F. Cutter, Sr.

From the Inside Flap

Over the course of my 25-year career in the electrical industry, I have seen the scope of work that defines the electrician grow significantly. Today, the knowledge, skills, and abilities required for electricians who install, troubleshoot, and maintain electrical systems are mind-boggling. In addition to the expanding scope of work, the pace at which change occurs and the pace at which technology improves are unfathomable. Even a cursory review of today's electrical market will reveal that nowhere is the confluence of these two developments more apparent than in the area of electrical/electronic systems control and monitoring. Albert Cutter has done an outstanding service for our industry by developing a hands-on reference and training tool in his new work, *Electrician's Guide to Control and Monitoring Systems*.

Electrical workers today are faced with the increased challenge of installing, troubleshooting, and maintaining the systems that control and monitor critical-mission processes and operations. The Guide provides detailed drawings and step-by-step explanations that will be extremely useful to field and plant electricians who are required to install and maintain these systems. Extensive coverage is provided on input and output devices, ladder diagrams, pilot devices, and electrical control and monitoring symbols.

Today's electrical industry is a dynamic one that relies heavily on the latest electrical/electronic systems to control and monitor processes that are critical to so very many industries, including the automotive, pharmaceutical, petrochemical, and engineering communities. Electricians must

be trained and capable of meeting the increasing demands that these industries place on them. Mr. Cutter's Guide will go a long way toward helping the next generation of electricians meet this challenge.

Michael I. Callanan

Executive Director

National Joint Apprenticeship and Training Committee (NJATC)

From the Back Cover

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## **Users Review**

### **From reader reviews:**

#### **Todd Grossi:**

The event that you get from Electrician's Guide to Control and Monitoring Systems: Installation, Troubleshooting, and Maintenance (P/L Custom Scoring Survey) may be the more deep you looking the information that hide inside the words the more you get thinking about reading it. It doesn't mean that this book is hard to understand but Electrician's Guide to Control and Monitoring Systems: Installation, Troubleshooting, and Maintenance (P/L Custom Scoring Survey) giving you enjoyment feeling of reading. The article writer conveys their point in selected way that can be understood by simply anyone who read this because the author of this book is well-known enough. This specific book also makes your personal

vocabulary increase well. Therefore it is easy to understand then can go to you, both in printed or e-book style are available. We recommend you for having this Electrician's Guide to Control and Monitoring Systems: Installation, Troubleshooting, and Maintenance (P/L Custom Scoring Survey) instantly.

**Steven Maravilla:**

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