

Millennium Controller MC Series Installation and Operation Manual

For Kernel 0.96

00-02-0478
Revised 02-97
Section 50



Please read the following information before installing. A visual inspection of this product for damage during shipping is recommended before mounting. It is your responsibility to have a qualified person install this unit and make sure it conforms to NEC and local codes.

GENERAL INFORMATION

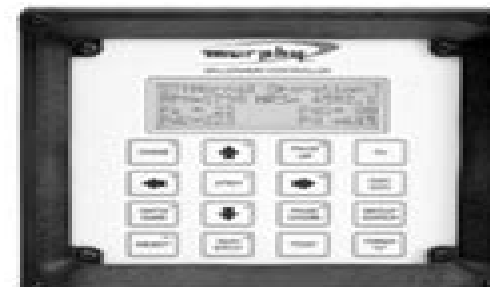
WARNING

BEFORE BEGINNING INSTALLATION OF THIS MURPHY PRODUCT

- ✓ Disconnect all electrical power to the machine.
- ✓ Make sure the machine cannot operate during installation.
- ✓ Follow all safety warnings of the machine manufacturer.
- ✓ Read and follow all installation instructions.



Approved
Class I, Div. 2
Groups C & D



Description

MC Series Millennium Controller is a PC-based monitoring, control and data acquisition system. Designed with engine-driven compressors in mind, the MC Series is suitable for a wide range of industrial applications. As the heart of the control package, the MC series continuously monitors inputs and set points for correct operation. When an out-of-limit event occurs, the controller provides an alphanumeric readout of critical machinery data or shutdown fault information.

In addition to the shutdown and control functions, the MC series controller provides both local and remote communications of vital equipment and operating data. This advanced system offers multiple options for remote communications. A serial link is provided for Programmable Logic Controllers, PC's and SCADA systems. Radio and satellite communications are accommodated through the MODBUS RTU protocol.

Operations analysis and maintenance is facilitated by the operation hours and data trending system. The shutdown snapshot feature gives operators a complete picture of system conditions at shutdown.

Basic Components

Controller Display PC Modules (head)

MCH-L-ME: 586 compatible processor, 100 MHz; 8 MB RAM; LCD Display.

MCH-V-ME: 586 compatible processor, 100 MHz; 8 MB RAM; VFD Display.

Power Supply

MCPS-NA: no analog outputs.

MCPS-A1: one analog output.

MCPS-A2: two analog outputs.

Optional I/O Expansion Modules

C267 Module *UL/cUL Listed, Class I, Div. 2 Groups C & D*

The C267 adds standard I/O capability to the Murphy Millennium Controllers via MODBUS RTU communication. The C267 includes 8 digital inputs, 7 analog inputs, power supply monitor, 8 discrete outputs and 1 frequency input for speed sensing.

C277 Module *UL/cUL Listed, Class I, Div. 2 Groups C & D*

The C277 adds temperature sensing capabilities to the Murphy Millennium Controllers through MODBUS RTU communications via an RS485 port. The C277 can read up to 18 ungrounded thermocouples or mA sources from pressure transmitters and other transmitters.

C287 Module *UL/cUL Listed, Class I, Div. 2 Groups C & D*

The C287 adds precision analog inputs and additional analog outputs to the Murphy Millennium Controllers via Modbus RTU communications. The C287 includes four 15-bit analog inputs, four 16-bit analog outputs (all 4-20mA).

Optional Hold Up Capacitor Package MCCP Model

The MCCP module is an optional Hold Up Capacitor Package that allows the MC Series Millennium Controller to work flawlessly with 12 VDC cranking battery systems.

MC Series General Specifications

NOTE: The system is intended for mounting in a weatherproof enclosure.

Power Input: 10-32 VDC, 26 watts maximum.

Operating Temp.: -40 to 85°C (-40 to 185°F)

Base Unit w/VFD Display: -40 to 85°C (-40 to 185°F).

Base Unit w/LCD Display: -20 to 70°C (-4 to 158°F).

Programming: PC-based Ladder Logic.

Millenium Controller Operation Manual

L Reisser



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Table of Contents Millenium Controller Operation Manual

1. Understanding the eBook Millenium Controller Operation Manual
 - The Rise of Digital Reading Millenium Controller Operation Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Millenium Controller Operation Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Millenium Controller Operation Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Millenium Controller Operation Manual
 - Personalized Recommendations
 - Millenium Controller Operation Manual User Reviews and Ratings
 - Millenium Controller Operation Manual and Bestseller Lists

5. Accessing Millenium Controller Operation Manual Free and Paid eBooks
 - Millenium Controller Operation Manual Public Domain eBooks
 - Millenium Controller Operation Manual eBook Subscription Services
 - Millenium Controller Operation Manual Budget-Friendly Options
6. Navigating Millenium Controller Operation Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Millenium Controller Operation Manual Compatibility with Devices
 - Millenium Controller Operation Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Millenium Controller Operation Manual
 - Highlighting and Note-Taking Millenium Controller Operation Manual
 - Interactive Elements Millenium Controller Operation Manual
8. Staying Engaged with Millenium Controller Operation Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Millenium Controller Operation Manual
9. Balancing eBooks and Physical Books Millenium Controller Operation Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Millenium Controller Operation Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Millenium Controller Operation Manual
 - Setting Reading Goals Millenium Controller Operation Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Millenium Controller Operation Manual
 - Fact-Checking eBook Content of Millenium Controller Operation Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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