

Application

The Metasys Network Automation Engine (NAE) is an Ethernet-based, supervisory device that connects BAS networks to IP networks. NAEs monitor and control field-level building automation devices, including HVAC equipment, lighting, security, and fire safety equipment. At Release 11.0, the NAE55 is also FIPS 140-2 Level 1 compliant. FIPS 140-2 is a United States government cybersecurity standard that approves cryptographic modules/algorithms used for encryption. Use this document to install the NAE. Figure 1 shows the NAE55 engine.

Figure 1: NAE55 Network Engine



The NAE offers various integration options. Ethernet network integrations include the following options:

- Johnson Controls and 3rd party BACnet/IP, BACnet/SC devices
- Simplex® Fire Alarm Control Unit (FACU)
- Cree® SmartCast® Lighting Control
- Molex® Lighting Control
- Tyco® C-CURE® 9000 or victor® Video Management
- Modbus TCP/IP
- KNX IP
- OPC UA integration at Metasys Release 11.0

Field Bus integrations include the following options:

- BACnet MS/TP
- N2 Bus
- LonWorks® (NAE552x models only)
- Modbus Remote Terminal Unit (RTU)
- Meter Bus (M-Bus)
- Zettler® Fire Panel

- ▶ **Important:** For any other custom integrations, contact your local Systems Integration Services (SIS) team before an upgrade. Updated drivers are available on request.

In this installation guide, the term network engine applies to any NAE55 model, unless otherwise stated. For installation instructions on the NAE55s that are approved for Metasys system smoke control applications, refer to the *NAE55 Installation Instructions (Part No. 24-10051-00132)*.

- ⓘ **Note:** At Metasys Release 10.0 and later, modems (internal and external) and pagers are no longer supported on NAE55 engines that run the Linux operating system, but are still supported on prior releases for engines that use a Windows Embedded operating system. You can field-upgrade a network engine at Release 9.0 that has an internal modem to Release 10.0 or later to acquire new release enhancements, but its modem and pager functionality are lost. If you need modem and pager functionality, do not upgrade the NAE55 engine to Release 10.0 or later.

Installation

Follow these guidelines when installing the network engine:

- Transport the network engine in the original container to minimize vibration and shock damage to the network engine.
- Verify that all the parts shipped with the network engine. The data protection battery and network engine ship together but are packaged separately.
- Do not drop the network engine or subject it to physical shock.
- Do not open the network engine housing (except the data protection battery compartment). The network engine has no user-serviceable parts inside.

Parts included

- one M5-NAE55xx-x model
- one data protection battery
- one installation instructions sheet

Materials and special tools needed

You can mount the network engine by using the fasteners option or the DIN rail option.

- Fasteners option - Three fasteners appropriate for the mounting surface:
 - #8 screws - North America
 - M4 screws - Europe
- DIN rail option - 36 cm (14 in.) or longer section of 35 mm (1 1/8 in.) for DIN rail mount applications only.



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Table of Contents Johnson Controls Metasys Manual

1. Understanding the eBook Johnson Controls Metasys Manual
 - The Rise of Digital Reading Johnson Controls Metasys Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Johnson Controls Metasys 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 Johnson Controls Metasys Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Johnson Controls Metasys Manual
 - Personalized Recommendations
 - Johnson Controls Metasys Manual User Reviews and Ratings
 - Johnson Controls Metasys Manual and Bestseller Lists

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