

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 MS-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.



Metasys Johnson Controls Manual

JS Bruner



Metasys Johnson Controls Manual:

The book delves into Metasys Johnson Controls Manual. Metasys Johnson Controls Manual is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Metasys Johnson Controls Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Metasys Johnson Controls Manual
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 - Chapter 3: Metasys Johnson Controls Manual in Everyday Life
 - Chapter 4: Metasys Johnson Controls Manual in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, the author will draw a conclusion about Metasys Johnson Controls Manual. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Metasys Johnson Controls Manual.

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Metasys Johnson Controls Manual Introduction

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