



RAYCHEM

NGC-UIT3-EX

User Interface Terminal for nVent RAYCHEM NGC Systems Installation Instructions



CERTIFICATIONS / APPROVALS

- TYPE 4X, IP65 protection on front panel
- FCC Part 15 Subpart B/ICES 003 Class A
- CE marking
 - Low Voltage Directive (2014/35/EU) EN 62368-1 2014 / A11 2017
 - EMC Directive (2014/35/EU) EN 55032 2015 EN 55035 2017
- Conforms to UL 62368-1, 2nd Ed, 2014-12-01; CAN/CSA C22.2 No. 62368-1-14, 2nd Ed, Issued: 2014-12-01; UL 60950-1, 2nd Edition, 2013-05-09; CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10
- ATEX Directive (2014/34/EU)
 - EN 60079-0 2017
 - EN 60079-11 2012
 - EN 60079-7, 2015 +A1 2018
- IECEx
 - IEC 60079-0 2017
 - IEC 60079-11 2012
 - IEC 60079-7, 5.1 Ed.



■ 3 G Ex Ic ec IIc T5 Gc



General

| | |
|--------------------------|---|
| Area of Use | Ordinary (nonhazardous) and Hazardous locations, indoors or outdoors (IP65, Type 4X) |
| Supply Voltage | 12-27VDC, 3A - 1.1A respectively, 30W max / 15W nominal, AWG 16-20 (1.31 mm ² - 0.52 mm ²) |
| Operating Temperature | -40°C to 60°C (-40°F to 140°F) |
| Min. Storage Temperature | -40°C to 80°C (-40°F to 176°F) |
| Dimensions | 279 mm W X 229 mm H X 70 mm D (11 in. W X 9 in. H X 2.75 in. D) |
| Humidity Range | 10 to 90% Non-Condensing |
| Wire rating | 85°C or higher |
| Recommended Screw Torque | 5.5 in lbs (0.62Nm) |

Alarm Outputs

| | |
|-----------------------------------|---|
| Transistor open collector outputs | 5 - 30 Vdc with a max. sink current of 500 mA, AWG 16-20 (1.31 mm ² - 0.52 mm ²) |
| Use to drive external relays | Relays may be assigned for alarm outputs. |

DESCRIPTION

The nVent RAYCHEM NGC-UIT3-EX is a panel mounted display used in conjunction with other nVent RAYCHEM control and monitoring devices. The NGC-UIT3-EX is rated IP 65 (Type 4X), and can be mounted indoors or outdoors. The NGC-UIT3-EX kit includes all hardware required for mounting in a suitable electrical panel. Additional materials are required for electrical connections and are detailed below. These instructions describe how to mount the NGC-UIT3-EX in an electrical panel and are intended only for qualified personnel experienced in panel construction.

KIT CONTENTS

| Qty | Description |
|-----|--------------------------------------|
| 1 | NGC-UIT3-EX |
| 12 | 6/32 in Kap nuts (locking nuts) |
| 1 | 5-ft 9-pin RS-232 (Null Modem) cable |

TOOLS REQUIRED

- Masking tape
- #16 5 mm (3/16 in) drill bit
- Metal file
- In-line torque wrench with 8 mm (5/16 in) socket
- Jig saw (recommend using carbon steel blade with 24TPH)

ADDITIONAL MATERIALS (TO BE ORDERED SEPARATELY)

| Qty | Description | Manufacturer | Manufacturer Part Number |
|-----|----------------------------------|------------------|--------------------------|
| 3 | Alarm relays - 12 Vdc, 5 A, SPDT | Square D | 8501RSD34V51 |
| 3 | Alarm relay sockets | Square D | 8501NR458 |
| 1 | Pilot light 12 Vdc | IDEC Corporation | APW1199DR12V |

Note: Equivalent parts may be used.

Ngc 1 Manual

Samuel Shelburne Robison



Ngc 1 Manual:

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Table of Contents Ngc 1 Manual

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

5. Accessing Ngc 1 Manual Free and Paid eBooks
 - Ngc 1 Manual Public Domain eBooks
 - Ngc 1 Manual eBook Subscription Services
 - Ngc 1 Manual Budget-Friendly Options
6. Navigating Ngc 1 Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Ngc 1 Manual Compatibility with Devices
 - Ngc 1 Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ngc 1 Manual
 - Highlighting and Note-Taking Ngc 1 Manual
 - Interactive Elements Ngc 1 Manual
8. Staying Engaged with Ngc 1 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ngc 1 Manual
9. Balancing eBooks and Physical Books Ngc 1 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ngc 1 Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ngc 1 Manual
 - Setting Reading Goals Ngc 1 Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ngc 1 Manual
 - Fact-Checking eBook Content of Ngc 1 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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