SIMPLEX 4090-9005

SIMPLEX 4090-9005 IDNET Release Peripheral Instruction Manual

Model: 4090-9005

Cautions, Warnings, and Regulatory Information

READ AND SAVE THESE INSTRUCTIONS. Follow the instructions in this installation manual. These instructions must be followed to avoid damage to this product and associated equipment. Product operation and reliability depend upon proper installation.

General Safety Precautions



This image shows the SIMPLEX 4090-9005 IDNET Release Peripheral in its anti-static packaging, along with the top portion of its instruction manual. The manual displays the product name and initial safety warnings.

DO NOT INSTALL ANY SIMPLEX™ PRODUCT THAT APPEARS DAMAGED. Upon unpacking your Simplex product, inspect the contents of the carton for shipping damage. If damage is apparent, immediately file a claim with the carrier and notify an authorized Simplex product supplier.

ELECTRICAL HAZARD: Disconnect electrical field power when making any internal adjustments or repairs. All repairs should be performed by a representative or an authorized agent of your local Simplex product supplier.

STATIC HAZARD: Static electricity can damage components. Handle as follows:

- Ground yourself before opening or installing components.
- Prior to installation, keep components wrapped in anti-static material at all times.

Important Compatibility Information

When the Suppression Release Peripheral (SRP) is used for field replacement, no action is necessary. In a new installation, the software limitations in Table 1 must be adhered to. This is because revision E and earlier SRPs sensed only normal (10 k EOL) and trouble (open-circuit) conditions, and later SRPs sense normal (10 k EOL), trouble (open-circuit), and supervisory (16.2 k disconnect switch) conditions. When adding an SRP to an existing (pre-revision F) installation, it is necessary to either upgrade the software or clip the 16.2 k resistor from the maintenance switches.

Table 1: SRP Compatibility Information

Model	Compatibility
4010	SRP is compatible with 4010 IDNet™ and NACs. Master software is at revision 4.01* or higher. SFIO software is at revision 4.01* or higher.
4009	SRP is compatible with 4009 IDNet and NACs.

Setup Instructions

This section provides general guidelines for the installation and initial setup of the SIMPLEX 4090-9005 IDNET Release Peripheral. Always refer to local codes and regulations for specific installation requirements.

Pre-Installation Checks

- Verify that all components listed in the packing slip are present and undamaged.
- Ensure the installation environment meets the specified temperature and humidity ranges.
- Confirm compatibility with your existing fire alarm control panel (FACP) as per the "Important Compatibility Information" section.

Installation Steps

1. Disconnect all power from the FACP before beginning installation.
2. Ground yourself to prevent electrostatic discharge (ESD) damage to the peripheral.
3. Mount the 4090-9005 peripheral in the designated location within the FACP enclosure, following the

FACP's specific mounting instructions.

4. Connect the IDNet and NAC wiring to the peripheral's terminals as indicated in the wiring diagrams provided with your FACP and this peripheral. Ensure correct polarity.
5. If required for compatibility with older systems, clip the 16.2 k resistor from the maintenance switches as detailed in the compatibility section.
6. Secure all wiring connections and ensure no loose strands.
7. Restore power to the FACP and verify proper operation.

Operating Instructions

The SIMPLEX 4090-9005 IDNET Release Peripheral operates as an interface within a fire alarm system. Its primary function is to facilitate the release of suppression agents based on signals from the fire alarm control panel.

Normal Operation

- In normal standby mode, the peripheral monitors the IDNet communication loop for commands from the FACP.
- The peripheral's status indicators (if present) should show a normal operating state (e.g., green LED).

Suppression Release Activation

- Upon receiving a release command from the FACP, the peripheral will activate its output to initiate the suppression agent release sequence.
- This activation is typically accompanied by a change in status indicators and may trigger audible/visual alarms connected to the NACs.

System Monitoring

- The peripheral continuously reports its status and any detected faults back to the FACP via the IDNet communication.
- Any trouble conditions (e.g., open circuits, short circuits) will be reported to the FACP for display and logging.

Maintenance Guidelines

Regular maintenance ensures the reliable operation of your SIMPLEX 4090-9005 IDNET Release Peripheral and the overall fire suppression system.

Routine Checks

- Annually inspect all wiring connections for tightness and signs of corrosion.
- Verify that the peripheral's mounting is secure.
- Check for any visible damage to the unit or its components.

System Testing

- Perform periodic functional tests of the fire alarm and suppression system as required by local codes and manufacturer recommendations.
- Ensure that the peripheral correctly responds to test signals from the FACP.

Cleaning

- Keep the peripheral free from dust and debris. Use a soft, dry cloth for cleaning.
- Do not use liquid cleaners or solvents.

Troubleshooting

This section provides guidance for common issues that may arise with the SIMPLEX 4090-9005 IDNET Release Peripheral. For complex problems, contact an authorized Simplex product supplier.

Common Issues and Solutions

Peripheral Not Responding

Possible Cause: Incorrect wiring or power supply issue.

Solution: Verify all wiring connections are secure and correctly terminated. Check the FACP for power supply status and IDNet communication errors.

Trouble Condition Reported by FACP

Possible Cause: Open circuit, short circuit, or incompatible software.

Solution: Inspect IDNet and NAC wiring for faults. Refer to the "Important Compatibility Information" section to ensure FACP software revision is compatible. If necessary, upgrade FACP software or adjust the 16.2 k resistor.

Suppression Release Fails to Activate

Possible Cause: FACP not sending release command, or peripheral fault.

Solution: Check FACP logs for release command status. Verify peripheral status indicators. If the issue persists, contact a qualified service technician.

Technical Specifications

Brand	SIMPLEX
Model Number	4090-9005
Product Type	IDNET Release Peripheral
Compatibility	4010 IDNet™ and NACs (Master/SFIO software 4.01* or higher), 4009 IDNet and NACs
Power Source	System Powered (from FACP)
Sensor Type	Photoelectric (compatible detectors)

Alarm	Audible (via connected devices)

Warranty and Support

For warranty information, please refer to the documentation provided with your original purchase or contact your authorized Simplex product supplier.

Technical Support

If you require technical assistance or have questions regarding the installation, operation, or maintenance of your SIMPLEX 4090-9005 IDNET Release Peripheral, please contact your local authorized Simplex product supplier or the manufacturer's customer service.

Supplier: FireSafety2014

Return Policy: 30 days