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› Hoffman CSD242412LG Concept Steel NEMA 4/12 Enclosure User Manual

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Model: CSD242412LG

Brand: Hoffman

1. INTRODUCTION

This user manual provides comprehensive instructions for the safe and effective installation, operation, and maintenance of your Hoffman CSD242412LG Concept Steel NEMA 4/12 Enclosure. Please read this manual thoroughly before proceeding with any installation or operation to ensure proper use and to prevent potential hazards.

The Hoffman CSD242412LG is a robust steel enclosure designed to protect sensitive electrical and electronic components from harsh industrial environments, offering NEMA 4/12 protection against dust, dirt, oil, and water.

2. IMPORTANT SAFETY INFORMATION

Always observe the following safety precautions to prevent injury to personnel and damage to the equipment.

- Ensure all power is disconnected before installing, servicing, or performing any work inside the enclosure.
- Only qualified personnel should perform installation and maintenance procedures.
- Proper grounding of the enclosure is essential to prevent electrical shock.
- Do not modify the enclosure in any way that could compromise its NEMA rating or structural integrity.
- Verify that the enclosure is securely mounted to a stable surface capable of supporting its weight and the weight of its contents.
- Ensure all cable entries are properly sealed to maintain the enclosure's environmental rating.

3. PRODUCT OVERVIEW

The Hoffman CSD242412LG is a Concept Steel NEMA 4/12 Enclosure, measuring 24x24x12 inches. It features a 1/4-turn latch for secure closure and is constructed from durable steel.



This image displays several Hoffman Concept Steel NEMA 4/12 Enclosures of varying sizes. One enclosure in the foreground has its door open, revealing the interior mounting panel. These enclosures are designed to protect electrical and electronic components in industrial environments.

Key Features:

- **NEMA 4/12 Rating:** Provides protection against dust, dirt, oil, and water, suitable for indoor and outdoor use.
- **Material:** Constructed from durable steel for long-lasting performance.
- **Dimensions:** Nominal size of 24x24x12 inches (Height x Width x Depth).
- **Latch Mechanism:** Equipped with a secure 1/4-turn latch for easy access and reliable closure.
- **Application:** Ideal for housing electrical controls, instruments, and components in industrial settings.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your Hoffman enclosure.

4.1. Site Preparation

- Select a location that is clean, dry, and provides adequate ventilation if required for internal components.
- Ensure the mounting surface is flat, stable, and strong enough to support the enclosure and its contents.
- Allow sufficient clearance around the enclosure for door opening, maintenance, and heat dissipation.

4.2. Mounting the Enclosure

1. Carefully unpack the enclosure and inspect it for any shipping damage.
2. Position the enclosure on the desired mounting surface. Mark the locations for mounting holes.
3. Drill appropriate holes in the mounting surface, ensuring they align with the enclosure's mounting provisions.
4. Secure the enclosure using appropriate hardware (e.g., bolts, washers, nuts) suitable for the mounting surface and the weight of the enclosure. Ensure all fasteners are tightened securely.

4.3. Grounding

Proper grounding is critical for safety. Connect the enclosure to a reliable earth ground using a suitable grounding conductor. The enclosure typically includes a grounding stud or provision for this purpose.

4.4. Cable Entry

Utilize appropriate cable glands or conduit fittings to maintain the enclosure's NEMA rating when routing cables into or out

of the enclosure. Ensure all openings are sealed to prevent ingress of contaminants.

5. OPERATION

Operating the Hoffman CSD242412LG enclosure is straightforward.

- **Opening the Door:** Turn the 1/4-turn latch counter-clockwise until it disengages. Pull the door open.
- **Closing the Door:** Push the door firmly shut until it makes full contact with the gasket. Turn the 1/4-turn latch clockwise until it is fully engaged and the door is securely sealed.
- Ensure the door is always securely latched to maintain the NEMA rating and protect internal components.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and continued protective performance of your enclosure.

- **Cleaning:** Periodically clean the exterior of the enclosure with a mild detergent and water. Avoid abrasive cleaners or solvents that could damage the finish.
- **Gasket Inspection:** Regularly inspect the door gasket for signs of wear, cracking, or damage. A compromised gasket can lead to loss of the NEMA rating. Replace damaged gaskets promptly.
- **Hardware Check:** Periodically check all mounting hardware, hinges, and latches to ensure they are secure and functioning correctly. Tighten any loose fasteners.
- **Internal Inspection:** With power disconnected, periodically inspect the interior for any signs of moisture, dust, or corrosion. Address any issues immediately.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your enclosure.

Problem	Possible Cause	Solution
Door does not seal properly.	Damaged or misaligned gasket; loose hinges; obstruction.	Inspect gasket for damage and replace if necessary. Check hinge alignment and tighten if loose. Remove any obstructions.
Condensation inside the enclosure.	Temperature fluctuations; high humidity; inadequate sealing.	Ensure all cable entries and openings are properly sealed. Consider installing a heater or vent system if condensation persists due to environmental conditions.
Latch is stiff or difficult to turn.	Lack of lubrication; dirt or debris in mechanism.	Clean the latch mechanism. Apply a small amount of appropriate lubricant (e.g., silicone-based grease) to moving parts.

8. SPECIFICATIONS

Technical specifications for the Hoffman CSD242412LG Concept Steel NEMA 4/12 Enclosure.

Attribute	Value
Model Number	CSD242412LG

Attribute	Value
Brand	Hoffman
NEMA Rating	4/12
Material	Steel
Nominal Dimensions (H x W x D)	24 x 24 x 12 inches
Package Dimensions	29.25 x 25.25 x 14.25 inches
Package Weight	1.6 ounces
Manufacturer	DAVIS INSTRUMENTS
Country of Origin	USA

9. WARRANTY AND SUPPORT

9.1. Warranty Information

This product is covered by the manufacturer's standard warranty. Please refer to the warranty documentation provided with your purchase or contact the manufacturer directly for specific terms and conditions.

9.2. Customer Support

For technical assistance, replacement parts, or any questions not covered in this manual, please contact Hoffman customer support or your authorized distributor. Provide your model number (CSD242412LG) when seeking support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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