ROHN WM4

ROHN WM4 Wall Mount Instruction Manual

Model: WM4

Introduction

The ROHN WM4 Wall Mount is a heavy-duty, galvanized steel bracket designed to secure antenna masts to a wall, providing a 3-inch stand-off distance. This mount is suitable for mast tubes with an outer diameter (OD) ranging from 7/8 inches to 2-3/4 inches. It is engineered to hold the mast securely in place but is not intended to support the primary weight of telescoping masts off the ground. The hot-dip galvanized finish ensures corrosion protection for long-lasting outdoor use.



Figure 1: ROHN WM4 Wall Mount. This image displays the galvanized steel wall mount, featuring a U-bolt clamp mechanism for securing a mast and pre-drilled holes for wall attachment.

Safety Information

- Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves during installation.
- Ensure the mounting surface is structurally sound and capable of supporting the weight of the mount, mast, and any attached equipment, especially in high wind conditions.

- Avoid installing near power lines or other electrical hazards.
- Use proper lifting techniques when handling masts and equipment.
- Do not overtighten fasteners, as this can strip threads or damage components.
- This mount is designed for stand-off support; it is not intended to bear the full vertical load of a telescoping mast from the ground.

Package Contents

Verify that all components are present before beginning installation:

- 1x ROHN WM4 Wall Mount Bracket (Galvanized Steel)
- 1x U-Bolt with nuts and washers
- 4x Lag Screws (1/4" diameter x 2" long) for mounting
- 1x Anti-twist locking screw

Setup and Installation

Follow these steps to properly install your ROHN WM4 Wall Mount:

1. **Select Mounting Location:** Choose a sturdy wall surface, such as a wooden stud or masonry, that can safely support the mount and mast. Ensure there is sufficient clearance for the mast and any attached equipment.
2. **Mark Drill Holes:** Hold the WM4 wall mount against the chosen surface. Use a pencil or marker to mark the four mounting holes. Ensure the mount is level before marking.
3. **Drill Pilot Holes:** Using an appropriate drill bit for your mounting surface (e.g., wood bit for studs, masonry bit for brick/concrete), drill pilot holes at the marked locations. The lag screws provided are 1/4" in diameter; ensure pilot holes are slightly smaller to allow for secure threading.
4. **Attach Wall Mount:** Align the mount with the pilot holes. Insert the four 1/4" x 2" lag screws into the holes and securely fasten the mount to the wall using a wrench or socket. Do not overtighten.
5. **Insert Mast:** Place the antenna mast into the U-bolt clamp of the WM4 mount. Ensure the mast is within the acceptable outer diameter range of 7/8" to 2-3/4".
6. **Secure Mast:** Position the U-bolt over the mast and through the holes on the mount. Thread the nuts onto the U-bolt and tighten them evenly to secure the mast.
7. **Engage Anti-Twist Screw:** Tighten the unique anti-twist locking screw against the mast. This screw helps prevent the mast from rotating within the clamp, providing additional stability.
8. **Final Check:** Verify that the mount is firmly attached to the wall and the mast is securely clamped and stable.

Operating Instructions

The ROHN WM4 Wall Mount functions as a fixed support for antenna masts. Once properly installed and the mast is secured, the mount provides a stable 3-inch stand-off from the wall, allowing for proper antenna positioning and cable routing. No further operational steps are required beyond initial installation.

Maintenance

To ensure the longevity and continued performance of your ROHN WM4 Wall Mount, periodic maintenance is recommended:

- **Inspect Fasteners:** Annually, check all lag screws securing the mount to the wall and the U-bolt nuts securing the mast. Retighten if any have loosened due to environmental factors or vibration.

- **Check for Corrosion:** Although the mount is hot-dip galvanized for corrosion protection, inspect for any signs of rust or degradation, especially in harsh environments. Clean any surface rust with a wire brush and apply a cold galvanizing compound if necessary.
- **Examine Mast Stability:** Ensure the mast remains firmly seated and does not exhibit excessive movement. Adjust the U-bolt and anti-twist screw if needed.

Troubleshooting

Issue	Possible Cause	Solution
Mount feels loose on the wall.	Lag screws are not fully tightened or mounting surface is compromised.	Retighten lag screws. If the surface is damaged, relocate the mount or reinforce the mounting area.
Mast is rotating or slipping.	U-bolt nuts are loose or anti-twist screw is not engaged. Mast OD is outside specified range.	Ensure U-bolt nuts are tightened evenly and the anti-twist screw is firmly against the mast. Verify mast OD is between 7/8" and 2-3/4".
Corrosion appearing on mount.	Exposure to harsh environmental conditions.	Clean affected areas and apply a cold galvanizing compound to restore protection.

Specifications

- **Model:** WM4
- **Brand:** ROHN
- **Material:** Heavy Duty Galvanized Steel (Hot-Dip Galvanized)
- **Mounting Type:** Wall Mount
- **Stand-Off Distance:** 3 inches from wall
- **Acceptable Mast OD:** 7/8 inches to 2-3/4 inches
- **Included Fasteners:** 4x 1/4" diameter x 2" long Lag Screws
- **Product Dimensions (L x W x H):** 10.5 x 4.38 x 1.75 inches
- **Item Weight:** Approximately 1 pound (16 ounces)
- **Color:** Silver (Galvanized finish)

Warranty and Support

For specific warranty information regarding the ROHN WM4 Wall Mount, please refer to the documentation provided at the time of purchase or contact ROHN directly.
For technical support or further assistance, please visit the official ROHN website or contact their customer service department.

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