

# INSTALLATION INSTRUCTIONS

## Cable Tray Mount — CT1000-24-U-4

4-Magnet Cable Tray Support Mount

### SAFETY WARNINGS

Failure to read and follow all instructions may lead to risk of injury or death.

#### ⚠ WARNING FALL HAZARD

Failure to follow this warning may result in serious injury or death.

Use OSHA approved fall protection equipment when installing mount.

Mount is NOT man-rated. Do not lean on mount, hang on mount, or use mount for support.

#### ⚠ WARNING DETACHMENT HAZARD

Failure to follow this warning may result in serious injury or death.

Failure to follow installation instructions, including application of correct torque values, may create a mount detachment hazard.

Mount must remain tethered to tower at all times.

#### ⚠ WARNING MAGNET HAZARD — CARDIAC DEVICES

Failure to follow this warning may result in serious injury or death.

Mount contains magnetic components.

Wearers of cardiac pacemakers, implantable cardioverter defibrillators (ICDs) or other metallic, magnetic, or mechanical implants, devices or objects should not come into contact with mount.

#### ⚠ CAUTION MAGNET HAZARD

Failure to follow this caution may result in injury or property damage.

Mount contains magnetic components.

- PINCH HAZARD. Interaction with magnets on mount may create a pinch hazard.
- PROPERTY HAZARD. Electronic objects such as cell phones, hearing aids, and beepers may be damaged.

#### ⚠ CAUTION CUT HAZARD

Failure to follow this caution may result in injury.

Metal components of mount may have sharp edges.

Use care and wear OSHA approved protective clothing, work gloves, and safety glasses when handling and installing mount.

#### ⚠ CAUTION ICE / WEATHER HAZARD

Failure to follow this caution may result in injury or property damage.

Ice accumulation on the mount or mast can significantly increase wind loading and reduce holding power.

Inspect and clear ice from mount before and during severe weather events.

Ensure guy wires (where applicable) are taut and secure prior to any winter weather.

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### GENERAL LAYOUT REQUIREMENTS

- › Cable tray covers (if used) to be a maximum of 4" high.
- › Cable tray should preferably be 12" wide, or a maximum of 18" wide.
- › The cable tray and cover should be made of aluminum.
- › The Magnemount Cable Tray holders must be mounted to the tank before the cable tray is attached.
- › The bottom Magnemount on a vertical run must be anchored to the ground.
- › Do not place any magnets across a weld.

### BEFORE YOU BEGIN

**TOOLS REQUIRED**  
1/2" open-ended wrench · 1/2" deep socket · Torque wrench

**NOTE:** *Spacing: Follow project engineering specifications, or Magnemount's recommendation of 2 feet for side-of-tank applications and 3 feet for top-of-tank applications.*

**⚠ DO NOT REMOVE THE PADS ON THE BOTTOM OF THE MAGNETS. They are an integral part of the system.**

### INSTALLATION STEPS

**1** DO NOT REMOVE THE BUBBLE WRAP UNTIL THE MAGNEMOUNTS ARE READY TO BE INSTALLED.

- 2 Space the Magnemounts according to project engineering specifications or the recommendations noted above.
- 3 Remove all dirt from the installation area — preferably with a damp cloth. This greatly aids holding power.
- 4 Remove the bubble wrap and cardboard from the magnet bases and place the Magnemount on the tower **BEFORE ATTACHING THE CABLE TRAY**.
- 5 If needed, adjust alignment by tapping the channel with a rubber mallet.
- 6 Loosen all double nuts (4 sets) until the magnets make full contact with the tank.
- 7 Finger-tighten the bottom nut **ONLY UNTIL IT CONTACTS THE WASHER INSIDE THE STRUT** (2 ft-lb max). Tightening more can reduce the holding capacity of the mount.
- 8 Bring the top nut down to contact the bottom nut. Hold the bottom nut with the open-ended wrench and tighten the top nut to 10 ft-lb of torque.
- 9 The strut should now be firmly mounted in all directions.
- 10 Attach the cable tray and cables to the Magnemounts.
- 11 The bottom Magnemount in a vertical run must be anchored to the ground.
- 12 Conduct a shear strength test at least 24 hours after installation. The shear strength should be 80 pounds per mount to pass.
- 13 Check double nuts yearly to ensure they remain tight.

## REMOVAL

- 1 Lift one end of the mount and all of the magnets will release.

### For Assistance

Email: [magnemount@wasinc.com](mailto:magnemount@wasinc.com)

Web: [www.magnemount.io](http://www.magnemount.io)