



PTM-91 Mount Kit

MOUNT AN ANTENNA ON THE PAINTER RINGS OF A PEDESTAL WATER TOWER

**PTM-91
VERSION FOR
PLATE-STYLE
PAINTER
RINGS**



**3 YEAR
WARRANTY**

**Easy-to-Install... Corrosion-Resistant... Sturdy!
The Mounting Kit For Yagi and Microwave
Antennas on Pedestal-Type Water Towers...**

Increased Lightning Protection

Because an antenna that is staged at the peak of a water tower is a more attractive target for lightning strikes, it is often more desirable to mount an antenna at the level of the painter rings below the spheroid tank.

However, the plate-style metal painter rings generally take the form of horizontal concentric rings around the tower – and therefore do not provide a convenient vertical structure for mounting an antenna.

To solve this problem, SCADAmetrics is pleased to introduce the PTM-91 Mount Kit. The PTM-91 is a crossover kit that provides a convenient method for attaching a vertical pipe to the painter rings. The vertical pipe is then suitable for mounting Yagi and Microwave antennas, such as those used in SCADA and wireless Internet systems.

Easy-to-Install

The kit is easy-to-attach – which is of paramount importance to maximize worker safety during installation.



Front View: VHF Yagi SCADA Antenna Mounted To Painter Rings Using the PTM-91 Mounting Kit



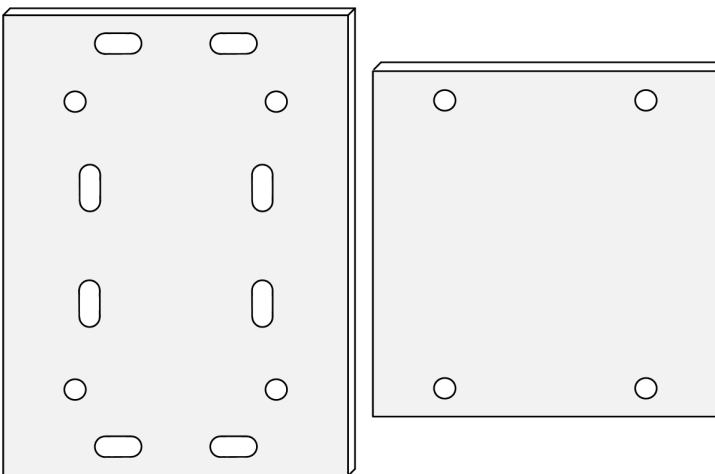
Rear View: VHF Yagi SCADA Antenna Mounted To Painter Rings Using the PTM-91 Mounting Kit

Rust-Proof

Every 5-10 years, antennas and mounting hardware must be temporarily removed from the water tower during sandblasting and re-painting operations. Therefore, it is vitally important that the hardware kit consist only of corrosion-resistant materials that can be removed and re-installed on multiple occasions:

The stout 0.140" thick crossover adapter plates are constructed of solid 304-2B stainless steel; and the U-Bolts and hardware are made of 316 stainless steel; and the mounting pipe is T-304/304L stainless steel welded tube.

In situations where the antenna RF connector is in close proximity to the side of the tank, an optional 90-deg RF Adapter (NF-NM) is available.



Crossover Mounting Plates
6 in. x 8 in. x 0.140 in.
6 in. x 6 in. x 0.140 in.

Included Hardware:

U-Bolt
 Size: 5/16"
 Quantity: 2
 Materials: 316 SS
 Dimensions: See Diagram

Lock Washer
 Size: 5/16" Medium
 Quantity: 8
 Materials: 316 SS

Flat Washer
 Size: 5/16"
 Quantity: 8
 Materials: 316 SS

Bolt
 Size: 5/16" x 1.5"
 Quantity: 4
 Materials: 316 SS

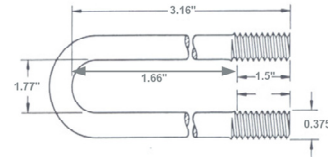
90-Deg RF Adapter
 (Optional)
 NF-NM
 Quantity: 1

Antenna Mounting Pipe:

Length: 36"
 Outer Diameter: 1.50"
 Inner Diameter: 1.37"
 Wall Thickness: 0.065"
 Material: T-304/304L SS Welded Tube



Optional 90-Deg RF Adapter
 Useful If Antenna RF Connector
 Close Proximity to Water Tower



U-Bolt Dimensional Diagram



Engineering Specifications:

The Antenna Mounting System shall be of an optimized design for mounting the antenna onto a painter ring of the water tower, and shall be constructed wholly of corrosion-resistant materials.

The system shall support vertical pipes with outside diameters ranging from 1 to 1.75 inch.

The U-Bolts shall be made of 316 stainless steel and 5/16 inch threads.

All hardware shall be made of 316 stainless steel and 5/16 inch threads. Standard and locking washers shall be provided for each nut.

The two (2) crossover adapter plates shall be constructed of solid 304-2B 10 gauge stainless steel.

The mounting pipe shall be T-304/304L stainless steel welded tube with a 1.5 inch outer diameter and a wall thickness of 0.065 inch.

The Antenna Mounting System shall be the Model PTM-91 by SCADAmetrics or equal.

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