

# **GNSS Antenna**

## **AU-217**

# **Installation Procedure**

(Document No. SE21-900-019-01)



**FURUNO ELECTRIC CO., LTD.**

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## Safety Precautions

- Please read carefully before use. Be sure to follow these instructions. After reading this manual, be sure to keep it carefully.
- The precautions listed below are to prevent risk of harm to the user and others, as well as to prevent property damage. Be sure to follow these instructions.
- The following classifications describe the extent of harm or damage in the case of improper handling.

 <b>Danger</b>	This content indicates risk of death or serious injury to the user in the case of improper handling.
 <b>Caution</b>	This content indicates risk of injury to the user or damage to physical property in the case of improper handling.



### Danger

- Do not install the antenna on a windy day or a bad weather day because it is dangerous. Especially, do not install the antenna or connect the antenna cable when there is a possibility of lightning strike.



### Caution

- Do not drop the antenna or subject it to strong shocks.
- Do not put excessive force on the antenna or allow it to hang.
- Do not scrape or damage the surface of the antenna with hard objects.
- To clean the surface of the antenna, wipe it lightly with a soft cloth moistened with water or a thin solution of neutral detergent. Do not use thinner, benzene, alcohol, etc. as they will damage the surface.
- Do not turn any screws or bolts other than for assembly or adjustment.
- Do not install near strong radio wave sources such as radios.
- When setting up two or more antennas next to each other, it is recommended that the antennas be separated by at least 1 meter.
- Be sure to use the specified antenna cable, as it transmits high frequency signals.
- Be sure to use the specified antenna mounting bracket.
- Check the antenna pole as necessary to prevent it from breaking or falling due to rust or other damage.
- Some buildings may have restrictions on installation. Please be sure to check before installation.
- If the installation location is made of aluminum, it may not be able to be installed depending on the strength and other factors. In the case of iron or other materials, make sure that they are not corroded. When installing the product, be sure to consider safety and reliability.

## Revision History

Version	Contents	Date
0	First Release	2021.10.15
1	Add descriptions in (1) of chapter 3 Add descriptions in (2) of chapter 3	2022.08.24

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## 1 Propose

This document shows the installation procedure for the following GNSS antenna: AU-217.

## 2 Materials

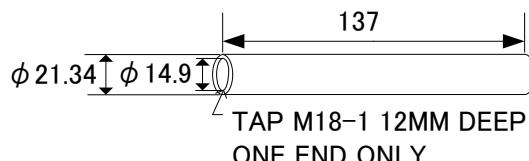
(1) GNSS Antenna: AU-217



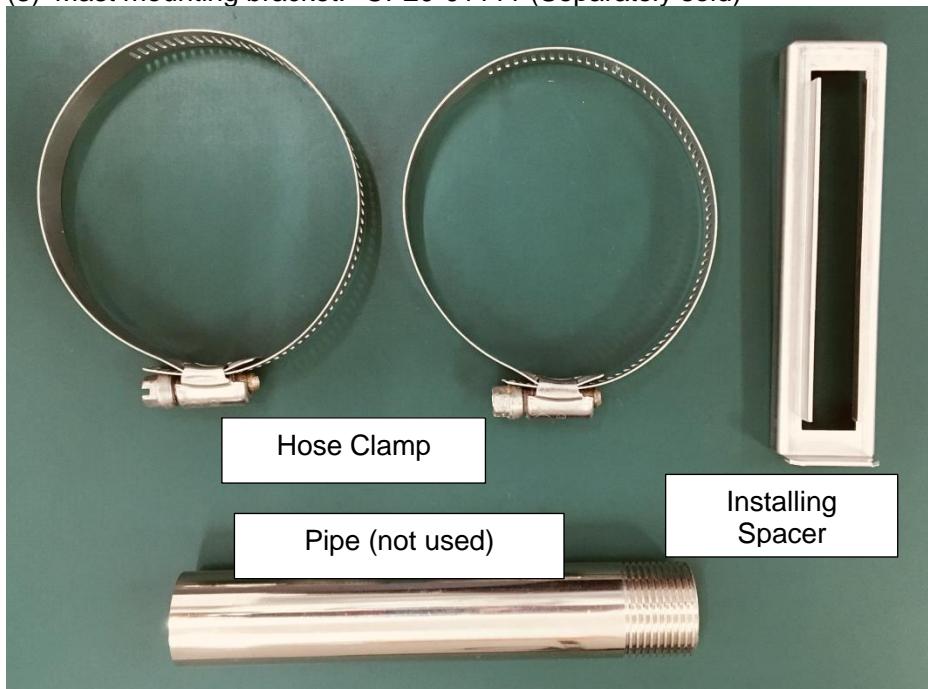
(2) Pole mount adapter: PM-001 (Separately sold)



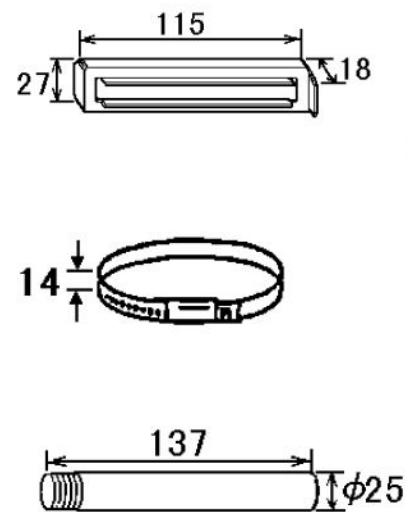
Rough sketch Outline



(3) Mast mounting bracket: CP20-01111 (Separately sold)



Rough sketch Outline



※DIMENSION IN DRAWING ARE FOR REFERENCE ONLY.

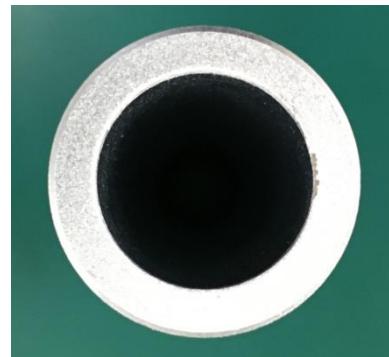
Connector conversion cables

N(J)-TNC(P) conversion cable NJ-TP-3DXV-1 or coaxial cable with TNC(P) connector

### 3 Installation Procedure



With screw thread



No screw thread

(1) Pass the coaxial cable with the TNC(P) connector through the hole in the pole mount adapter (PM-001).  
Pass the coaxial cable through from the side without screw threads.

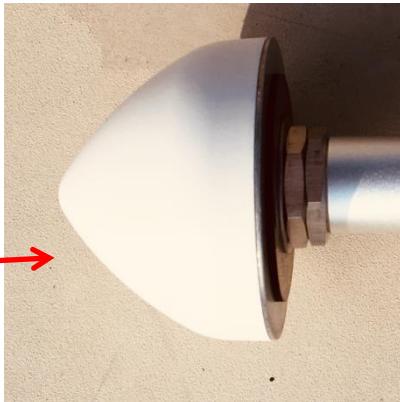
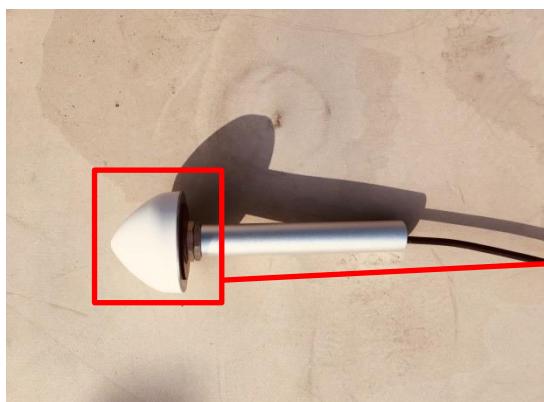
Note the outer diameter of the TNC connector.

If the TNC connector does not pass through the hole of PM-001, consider using a conversion cable (NJ-TP-3DXV-1).

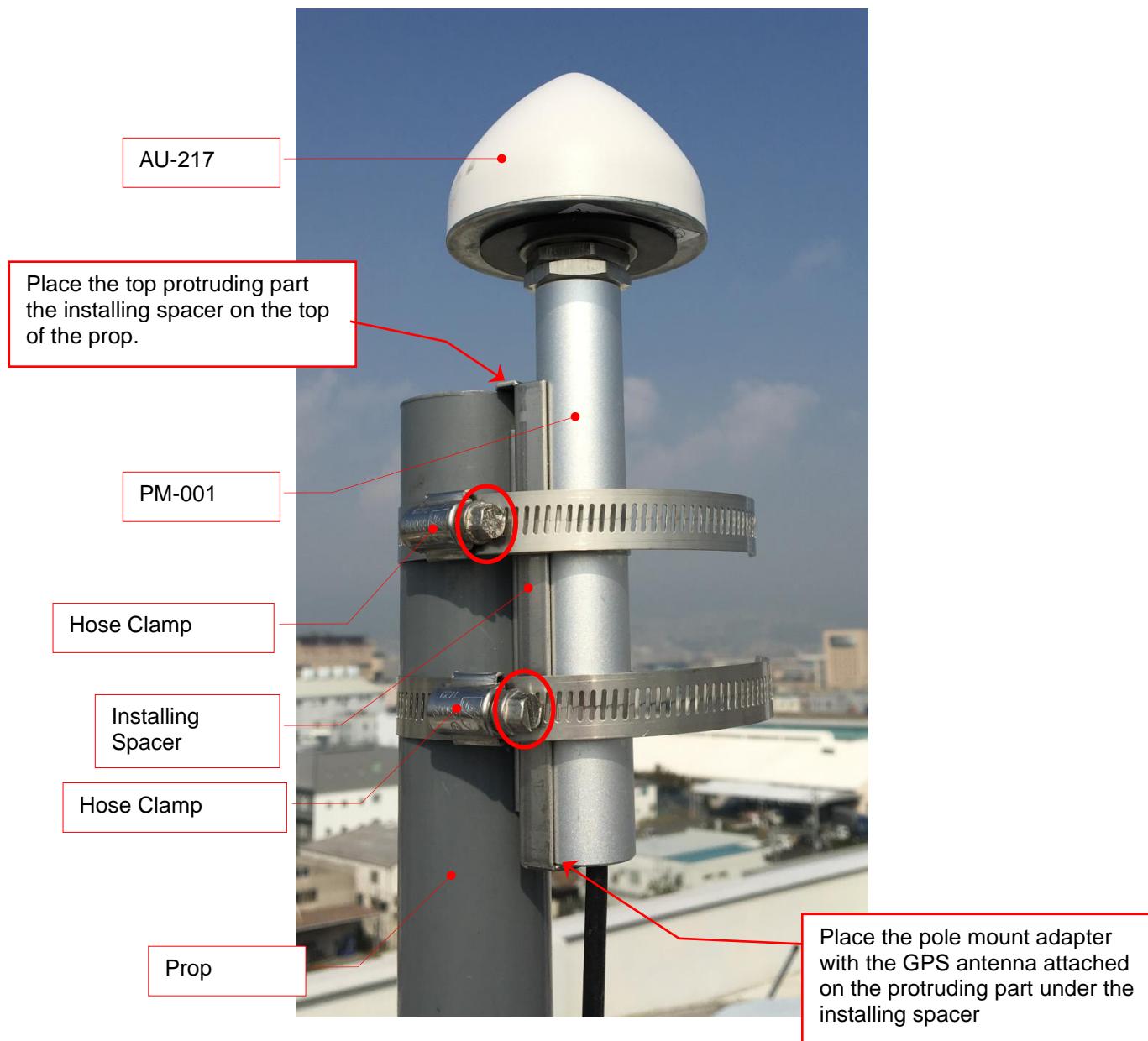


(2) Connect the TNC(J) connector of the GNSS antenna AU-217 to the TNC(P) connector of the coaxial cable.

Recommended torque values for the TNC connector are Imperial: 4.1 - 6.1 in-lbs | Metric: 0.46 - 0.69 Nm.  
Do not tighten with excessive manual torque. Do not use power tools for assembly or disassembly.



(3) Screw the AU-217 and PM-001 together until the threads of the AU-217 are fully screwed in.



(4) Fix the PM-001 with AU-217 attached to the prop.  
Use the CP-20-01111 installing spacer and two Hose clamps for fixing.

The mounting prop that fits the hose clamp is  $\varphi 25\text{-}70\text{mm}$ .

Tighten the parker clamp by turning the red circle in the figure clockwise with a flat head screwdriver.  
Tighten the parker clamp until the prop, installing spacer, and PM-001 are fixed.

Fix the excess part of the parker clamp with a cable tie.