

VINNANT-ANTENA FOR WEATHER BALLON AND  
SATELLITE OPERATIONS

TURNSTILE, TYPE TUR 403/3-S



VINNANT TYPE: TUR403/3-S

tuned at 403 Mhz

all modes ,omnidirectional

Antenna is tunable by sliding a reflector a  
bit up or down.

Radiator and elements are made of 8mm  
of diameter thick wall pipe.

Elements are equipped with threading on  
one of the ends, this way it seats great into  
antenna and provide firm connection

Middle part of the antenna is AL 32mm  
diameter pipe

stainless steel hardware

each antenna is equipped with high quality  
teflon N connector chassis type  
center pin gold plated

Antenna is sended in small packet ,easy  
assembly needed with manual provided

### Technical specifications:

Lenght 25 cm with holder

Width 36cm

Weight 0,45kg

Radiator diameter 8mm

Radials diameter 8mm

Connector N female chassis type

RX ONLY

IMPEDANCE 50OHM

Holder bolt M5 stainless steel

mast mountable max 42 mm of diameter

Circular polarization right hand

TUNED FOR 403.000 MHZ

Gain 3Dbd

USABLE BANDWIDTH 10MHZ

# ASSEMBLY INSTRUCTIONS:

ANTENNA IS SENT IN SMALL PACKET TO REDUCE THE SHIPPING COST AND NEED TO BE REASSEMBLED PRIOR TO USE.IT IS DONE IN SIMPLE STEPS:

## STEP1:

UNPACK THE ELEMENT FROM THE FOIL,THE 4 SHORTER ELEMENTS WITH SHORT THREAD AND 4 LONGER WITH LONG THREAD AND NUT

## STEP2:

SHORT ELEMENTS ARE TOP SECTION PART,PLACE INTO OPENNING ONE BY ONE AND SCREW TIGHT UNTIL IT STOPS,HAND TIGHT ONLY NO TOOLS PLEASE

## STEP3:

LONG ELEMENTS WITH COUNTER LOCKING NUTS ARE FOR THE BOTTOM SECTION TUNING RING,NEAR THE BRACKET.MAKE SURE THE NUT IS AT THE VERY ONE OF THE THREAD BEFORE PROCEEDING.PLACE EACH ELEMENT INTO THE THE THREAD RING AND SCREW INTIL IT STOPS,HAND TIGHT ONLY.

LOCK THE ELEMENT FROM UNSCREWING BY WIND BY COUNTER LOCKING THE NUT AGAINST THE THREAD COLUMN,FIRST HAND TIGHT THEN USE SPANNER NO 13 OR PLYES ,TURN THE NUT NO MORE THAN  $\frac{1}{4}$  OF THE TURN.

## STEP4:

THE ANTENNA IS READY TO BE PLACED OUTSIDE AT THIS POINT.SINCE THE ANTENNA IS QUITE BIG PLEASE MAKE SURE NOT TO DROP IT AS SOME ELEMENTS MAY BREAK OR BEND.IT IS BEST TO ASSEMBLE THE ANTENNA JUST PRIOR TO THE POLE MOUNTING.

USING THE ANTENNA INDOOR OR BLOCKED BY OBSTACLES,BUILDINGS,PATIO USAGE,WALL IN A WAY WILL REDUCE THE SIGNAL STRENGHT.ANTENNA WILL BE RECEIVING THE BEST WITH 360 VIEW.

TUNING OF THE ANTENNA:

ANTENNA IS TUNABLE TYPE, TUNING IS DONE BY SLIDING THE TUNING RING

UP OR DOWN TO TUNE THE ANTENNA IF NEEDED. SIMPLY LOOSEN THE HEADLESS SCREWS ON TUNING RING BY USING ALLEN KEY NO 1.5 LOOSEN THE RADIALS A LITTLE SO THE TUNING RING CAN BE SLIDED. START MOVING FROM ORIGINAL POSITION IN ABOUT A 5 MM A STEP. MAKE SURE THAT ELEMENTS ARE IN LINE AND MAKE A PERFECT CROSS LOOKING FROM THE BRACKET TO THE TOP SECTION. ONE HAPPY WITH SWR OR CENTER OF THE TUNING, SECURE THE ALLEN SCREWS TO KEEP THE SETTING OF THE ANTENNA.